# Leelanau County

Growth & Investment Area Study And Commercial Corridor Inventory



2014 Edition

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# **Acknowledgements**

Networks Northwest would like to thank all of the people who gave their time and resources towards the development of the Growth & Investment Area Study and Commercial Corridor Inventory project.

# Prepared by:



PO Box 506 Traverse City, MI 49685-0506 www.networksnorthwest.org

# With funding from:

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Introduction page i

# Introduction

The vitality of our villages and cities and their central business districts and commercial corridors is a critical part of what determines our standard of living in Northwest Michigan. Without economically viable and vibrant commercial areas our ability to earn a living, purchase goods and services, and learn of new opportunities would fail to meet our expectations and needs. Lending support to the self-evident importance of our Northwest Michigan villages' and cities', is a wealth of economic studies that demonstrate the positive impacts that concentrating people and economic activity can have for lifting real wages and elevating our quality of life. To provide the best foundation for our citizens to maximize their individual potentials it is essential that these areas attract growth and investment as the area grows.

The disciplines of planning and economic development imply the ability to analyze a situation and gauge the effectiveness of policy choices. The complexity of our interactions has always been a difficult mountain to climb for discovering which policies lead to successful outcomes. However, we gain better tools to help us sort through the complexities every year. Today's Apple iPad has the computing power of a super computer from 20 years ago. Increasingly we have the ability to make use of large amounts of data to help make better decisions. Not taking advantage of these tools, can potentially lead to the waste of the public and private wealth that Northwest Michigan works so hard to build.

To insure economically healthy and vibrant communities in Northwest Michigan, we need to study how our various communities are preparing themselves to leverage growth and investment forces to assist in achieving their community's goals. The first step is the identification of communities or areas that are preparing for growth and investment. Are they maximizing the benefits, while minimizing the impacts to our predominately rural setting and natural landscapes?

In addition to learning which locally implemented policies are successful, it is useful to measure key components of growth and investment, as identified by experts in the field of community economic development. Understanding where our Northwest Michigan communities fall on the scale of a group of select factors will provide potential goals for communities interested in maximizing their potential outcomes for their citizens. Studying these areas and learning what policies are working and which ones are not, will ultimately help to maintain and improve life in Northwest Michigan.

In order to gauge how our communities are growing, attracting economic activity, and putting in place policies that maximize potentials, Networks Northwest has conducted studies of Growth & Investment Areas (G&I Areas) and their associated Commercial Corridors, with the assistance of the State of Michigan Regional Prosperity Initiative (RPI) and the Partnership for Sustainable Communities, a cooperative program of the U.S. Department of Housing and Urban Development (HUD), the U.S. Department of Transportation (DOT), and the U.S. Environmental Protection Agency (EPA). This companion document to the Regional Prosperity Plan collected data from a variety of public and commercial providers, as well as conducted interviews of public officials, which were synthesized into this report.

## **Growth &Investment Areas**

## **Elements of Identification**

A community asset inventory survey was conducted in 2010 by the Northwest Michigan Council of Governments in conjunction with the Growth & Investment Network, which was initially formed during the community engagement portion of The Grand Vision. The survey collected responses from cities, incorporated and unincorporated villages, townships, and planned growth areas in Antrim, Benzie, Charlevoix, Emmet, Grand Traverse, Kalkaska, Leelanau, Manistee, Missaukee, and Wexford counties. The results of the survey were used to develop criteria for selecting areas from the region that were best positioned to accommodate future growth patterns anticipated for northern Michigan over the next 25 years. Initially, five criteria were chosen to select areas for additional analysis regarding their Growth & Investment readiness, trends, and capabilities. The five criteria are:

- 1. Operational Municipal Water System
- 2. Operational Municipal Sewer System
- 3. Approved Master Plan that recommends a defined higher density downtown core for development & investment
- 4. A Zoning Ordinance in place that codifies higher density development in the downtown core
- 5. Available Governmental Staff to process requests and permits

The community asset inventory was updated in 2012 with respect to these five criteria and then used to select the initial Growth & Investment areas for additional study. This resulted in 31 areas being selected. In those 31 initially identified Growth & Investment Areas, there are 42 individual units of government comprising the core commercial development areas. These 42 units of government were contacted by the Networks Northwest and asked to assist this study by providing time with staff or elected officials to conduct the Commercial Corridor Inventory Interviews.

# **Commercial Corridor Inventory Interviews**

As a central component of this project, units of government in the initial selection of G&I Areas were interviewed to collect their responses to questions regarding master planning, land use, capital improvement, transportation, infrastructure, and community marketing policies. The communities were asked to select their best qualified personal and/or elected official(s) to participate. Additionally, these interviews asked the local units of government to self-identify their commercial corridors of significance. The interviews were conducted from December 2012 to March 2014.

The interviews were conducted using a checklist tool called the *Commercial Corridor Inventory*. This inventory was designed to be objective and focused on current attributes, not future plans. Most of the Inventory's questions required a simple "Yes/No" answer; however they also contained an "Additional Comments" space to expand upon the answers or in many cases indicate policy areas that are currently in the development stage. Many of the policy questions relate to a sampling of best practices from the Michigan Economic Development Corporation's (MEDC) Redevelopment Ready Communities (RRC) program.

The commercial corridors were identified by the units of government based on their own criteria for significance to their community after receiving a brief introduction to the goals for the study. The corridor identification information from the interview was then entered in a Geographic Information System and place database for the mapping and analysis contained in this report.

# **Focus for Growth & Investment Study**

The wealth of economic studies that demonstrate the positive impacts that concentrating people and economic activity can have for lifting real wages and elevating our quality of life was used as a guide in the development of the analysis components for Northwest Michigan Growth & Investment Area Studies and Commercial Corridor Inventories. This study is not intended as a one size fits all yard stick for Northwest Michigan communities to measure their status with respect to growth and investment. Some communities may choose to focus on areas that can assist in maintaining the viability of their community's existing business establishments and others may choose to focus their attention on areas that can grow their local economies and population. One of the study's components that contains a mix of evaluation tools is a Growth Readiness Assessment. The mix of included criteria contain some that apply to all communities regardless of size and some that are designed primarily for larger communities. Communities should evaluate which study criteria are of value in gauging progress on the individual growth and investment goals they have set for their communities.

## **Growth & Investment Readiness Assessments**

# Original Selection Criteria

# **Municipal Water & Sewer**

Determining the density limit for individual residential septic systems is a complex issue and is based on an understanding of the site specific hydrology and water quality impacts. Michigan is the only state without specific state enabling legislation related to on-site wastewater treatment systems. Regulatory control over conventional septic tank and drain field siting, design, and construction is under the jurisdiction of local health departments. (Michigan Department of Environmental Quality 2004) The commonly accepted housing density standards before Municipal Water or Sewer are required may be summarized as follows: (American Society of Planning Officials 1952)

- Two families to the acre where both water and sewage systems are lacking.
- Four families to the acre where either water or sewer systems are lacking.
- Greater density where both facilities are provided.

As a caveat to these standards, studies have indicated that depending on the site conditions, even one family to the acre may not be sufficient to protect water quality and guard against conditions that could lead to premature failure of Onsite Sewage Disposal Systems.

Thus for the greater density made possible by community water and sewer service together with the greater environmental protections that properly maintained and updated municipal systems can achieve, This study focused on communities that had municipal systems in place or were trending towards implementing them.

#### **Government Staff**

In order to process development requests as well as having the capacity to analyze the successes and failures of land use application reviews, this study focused on communities that had sufficient staff resources.

# **Master Plan Includes Higher Density Center**

The previous Community Asset Inventory reviewed community master plans to determine if they contained goals for the establishment of a higher density core or downtown. This was determined as a key predictor of the community's capability to accommodate future growth.

# **Zoning Ordinance Supporting Master Plan Density Center**

As with the master plan high density center criterion, the previous Community Asset Inventory reviewed community zoning ordinances to determine if they codified the master plan goals for the establishment of a higher density core or downtown.

#### Census Data Criteria

#### **Core Place Population Increasing**

One of the effects of Northwest Michigan's vacation market, is declining year round population for some of the communities with high rates of second home ownership. This can lead to year round cash flow challenges for the local retail sector. As a result this study chose to track changes in Core Place population as a potential indicator for the sustainability of retail business activity.

## Housing Growth Rate Over 15% (2000-2010 Census)

The criterion of a 15% housing growth rate for the period between the 2000 and 2010 Censuses assists in determining which communities presently are experiencing significant development activity.

# **Core Place Housing Growth Increasing Faster than Surrounding Area**

This criterion is utilized as a measure of how our rural quality is being preserved by minimizing sprawl. It is measured by the percentage change of housing in the Core Place over the Growth & Investment Area as a whole from the 2000 to 2010 decadal Census. Other techniques for measuring of sprawl, such as satellite spectral analysis for changes in impervious surface, could be employed in the future provided sufficient budget availability.

# Census Class (Rural, Urban Cluster, Urbanized Area, MSA)

The US Census provides a classification of rural and urban areas that is helpful in determining growth and concentrations of population (see: 2010 Census Urban and Rural Classification and Urban Area Criteria, page 53)

## Job Density Over 75 Jobs per Acre in Commercial Corridors

A study on density as it relates to the reduction of Single Occupant Vehicle (SOV) trips and transit use found that SOV travel decreases at employment densities of 20 to 50 jobs per acre, and transit use increases dramatically at densities over 75 jobs per acre. (Frank and Pivo 1994) The Growth & Investment study chose to measure Job Densities over 75 jobs per acre to indicate corridors with strong demand for fixed route transit. In addition to transit benefits, workers support nearby retail and food service business. On average, an office worker can support 7 square feet of restaurant space and 23 square feet of retail space. (Gibbs 2012)

# 50% of Workers Living within 5 miles

The criterion of determining whether 50% or more of the workers are living within a 5 mile commute of jobs located in Growth & Investment Core Places was selected to measure potential positive agglomeration effects for real wage growth as supported by the economic studies cited previously in this report.

# Zoning Policy Criteria

## **Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors**

The criterion of 30 dwellings per acre was selected for study based on studies of density thresholds required for high quality walkable communities. This density is also supportive of transit operations.

## **Zoning Allows Mixed-Use by Right in Commercial Corridors**

Walkable communities require a mix of uses to be successful in providing transportation options demanded by market shifts in housing preferences. Requiring a "Special Use" process for mixed use land use applicants can lead to constraints on the supply of mixed use development over the less cumbersome "By Right" zoning and thus hamper the success of establishing vibrant walkable communities.

## Zoning Allows Multi-Family Residential by Right in Commercial Corridors

Multi-Family housing is increasingly in demand as the housing market shifts to smaller households looking for walkable communities. This criterion evaluates a communities policy restrictions on the supply of multi-family housing development.

## **Building Height Limits Greater than 35 feet in Commercial Corridors**

Allowing Building Height limits greater than 35 feet gives greater flexibility for both creating density in Core Places and allocating public space to critical placemaking efforts that help build vibrant communities.

#### No On-Site Parking Requirement in Central Business District

Many traditional Northwest Michigan downtowns development patterns were established before the establishment of auto parking requirements. Many existing historic downtowns can't meet the typical auto centric parking requirements without utilizing premium downtown real estate for large surface parking. Additionally, trends as outlined in this document are reducing vehicle ownership rates and thus parking requirements. This criterion helps to assess a Growth & Investment Area's flexibility to accommodate new market trends.

# **Density Bonuses Offered for Contributions towards Public Policy Goals**

The lack of supply of affordable housing has been identified as an issue for Northwest Michigan's economic competitiveness. This fact together with the need to create vibrant communities while protecting the areas natural resources can be partially addressed with policies such as density bonuses. This study is tracking community incentive policies for addressing these regionally important goals.

# Placemaking Criteria

#### Placemaking Elements in Support of Walkable Corridors

Placemaking elements that support walkable mixed-use corridors were selected as criterion for the assessment. These elements include the presence of theaters and entertainment venues, grocery stores, parks and pocket parks, and the abundance of pedestrian connections. This selection is not intended to diminish the importance of

other placemaking elements supportive of walkable corridors, but the ability to seek entertainment, purchase food, and recreate within a pedestrian friendly environment where considered important factors to measure.

#### **Retail Hub**

This criterion evaluates whether a communities retail sector acts as a local or regional hub. (see: Retail Classification: page 56)

# **Educational Institutions (Trade Schools, Community Colleges, Universities)**

In studying the performance of economic clusters, educational institutions play an important role in concentrating entrepreneurial activity and fostering growth and investment.

#### **Contain Medical Centers**

With the high concentration of senior demographics in Northwest Michigan's population, this study gave significance to medical infrastructure as a predictor/indicator of growth.

## Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)

While the Zoning Policy Criteria is looking at zoning densities sufficient to create viable walkable communities, this criterion tracks actual densities as determined by the 2010 Census.

# Opportunity Criteria

## **Community Identified Development Opportunities**

The presence of community identified development opportunities demonstrates that the community is proactive about development and has devoted resources towards potential future growth and investment.

## **Marketing Redevelopment & Infill Sites**

Potential development sites are abundant, especially in the current post-recession economic recovery period. The existence of a marketing effort by communities of redevelopment and infill sites can lead to a greater probability of attracting development activity.

#### Fixed Route Transit (Headways 15 mins or less)

According to The Transit Cooperative Research Program headways of 15 minutes or less is an acceptable threshold for employment commuting transit use, with 10 minutes or less being ideal.

#### Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)

Traffic Counts are a determinate of the retail site viability. Average Annual Daily Counts of 10,000 can augment a neighborhood or village store's business, making it sustainable for market areas with less than the required 800 to 1,000 households that are need to support them. Larger retailer site selection criteria typically require traffic counts from 20,000 to 40,000 depending on the specifics of the capture rate.

#### Infrastructure Criteria

#### **Additional Water & Sewer Capacity**

Municipal water and sewer expansions take a significant time to permit and build. If the municipal water and sewer capabilities are at their limits, businesses looking to expand or relocate to a new facility may not be in a position to wait for the completion of an expansion project. It is important that communities plan for sufficient capacity reserve to accommodate new service and provide for time to properly plan additional expansions.

#### **Broadband Service over 1 Gbps Available**

The next-generation of broadband service is providing speeds over 1 Gigabit per Second (Gbps) These speeds rely on fiber optic wires that run all the way to the premises referred to Fiber To The Home (FTTH) or Fiber To The Premises (FTTP). FTTH Consumers consistently rate it as the fastest and most reliable broadband technology. They also appreciate that fiber networks can deliver many unique broadband services for medicine, education, home-based businesses, home automation and entertainment. "There's growing evidence among economic development officials that fiber connectivity encourages businesses to stay, helps businesses grow and become more productive, and attracts new businesses, particularly in high-tech industries." (Broadband Communities 2013) In the United States, one of every five households is within reach of fiber, and nearly 10 million households are using FTTH services now.

# **Municipal WiFi**

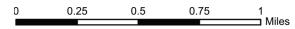
Wireless services are important public amenities, especially for younger population demographics, and are highly desirable in targeted areas such as pedestrian friendly commercial corridors and public areas. The existence of Municipal WiFi is an indicator of support for new infrastructure development important for growth and investment.

# **Growth & Investment Area Maps Legend**

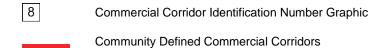
# **North Directional**



# Mileage Scale



# **Corridor Identification**



# Map Area Key



# **Commercial Corridor Maps Legend**

# **Points of Interest**

十

Public Use Airport



College



**Cultural Site** 



**Grocery Store** 



Hospital



Library



School



Theater/Entertainment Venue



Transit

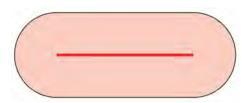
# **North Directional**



# Mileage Scale



# **Study Area Outline**



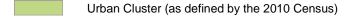
The Study Area is delineated by the area within .25 miles of the community defined commercial corridor (red line) and is shaded in a transparent red. Area calculations are derived from the land area only. For the purposes of pulling Census information, any 2010 Census block that is fully or partially contained with the study area was utilized in the data summaries.

# Map Area Key









# **Growth & Investment Area Unit(s) of Government:**

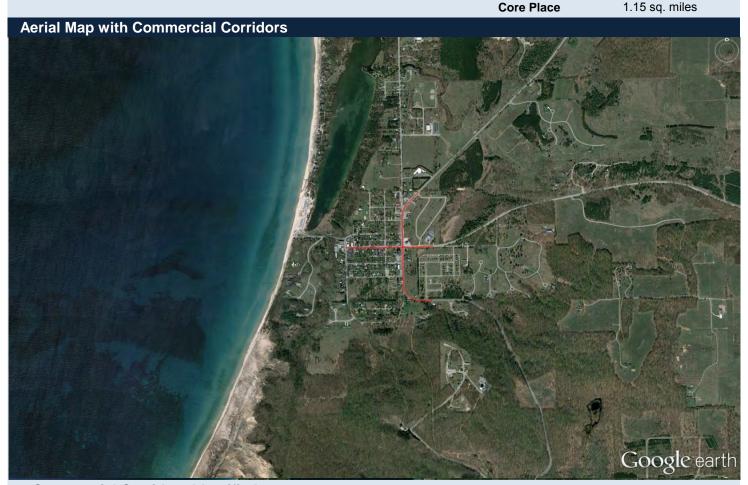
Village of Empire, Empire Township

#### **Core Place Census Areas:**

Village of Empire

County Census Class Land Area

Leelanau Rural G&I Area 35.24 sq. miles



## 2 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)

Population Density Range of G&I Area Corridors (per acre)

Gross Neighborhood Density Range of G&I Area Corridors (per acre)

Job Density Range of G&I Area Corridors (per acre)

Worker Density Range of G&I Area Corridors (per acre)

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

0.6 - 0.9

Worker Density Range of G&I Area Corridors (per acre)

0.9 - 1.4

Retail

**Total Sales** \$12,687,931 **Classification:** Retail Potential Exporter

Potential Sales \$15,471,469

**Leakage** \$2,783,538 **Seasonal Housing:** 40.6% of G&I Area Housing

Sprawl

Percentage of Housing in the Core Place is Growing by 2.5%

**Population** 

2000-2010: Growing at 8.9% with the Core Place Declining at -0.8%

Average Age: 50.9 [+11.7% change from 2000 Census]

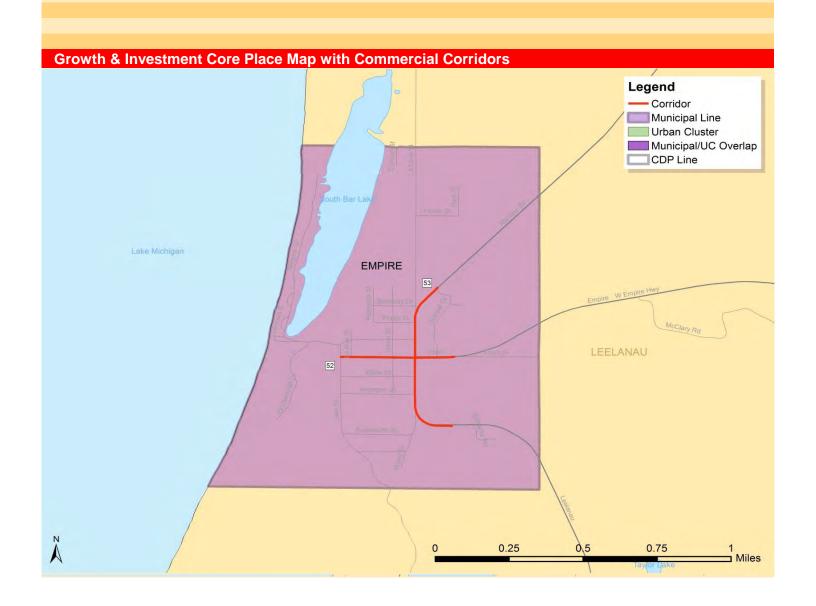
Demographic Shifts: Baby Boomers had the largest % gain (up 29.4%); Millennial Generation had the largest % loss (down -28.2%)

**Jobshed** 

Worker Exporter – Resident Worker population exceeds the number of Jobs by 16%

G&I	21	Empire	page 3
	wth 8	Investment Readiness Assessment	Criteria Status
iteria	1	Municipal Water	Yes
n Cr	2	Municipal Sewer	No
ectic	3	Government Staff	Yes
Initial Selection Criteria	4	Master Plan Includes Higher Density Center	Yes
Initis	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	No
æ	7	Housing Growth Rate Over 15% (2000-2010 Census)	Yes
Census Data	8	Core Place Housing Growth Increasing Faster than Surrounding Area	Yes
ensu	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
8	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	No
<u>ج</u>	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
Zoning Policy	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
oning	15	Building Height Limits Greater than 35 feet in Commercial Corridors	No
Z	16	No On Site Parking Requirement in Central Business District	No
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	No
king	19	Retail Hub	No
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
>	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	No
lodd	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
ē	26	Additional Water Capacity	No
Infrastructure	27	Additional Sewer Capacity	No
frastı	28	Broadband Service over 1 Gbps Available	No
드	29	Municipal WiFi	Yes

pag	ge 4	Empire				21 G&I
Co	mmercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
52	Empire West Front Street CBD	1,348	1.4	1.4	0.9	1.4
53	Empire M22 Corridor	4,029	0.9	0.9	0.6	0.9



#### \$52,031 **G&I Area** 10% \$45.268 Village of Empire **Empire Township** \$52,031 5% 0% 100 20 100 20 4 988 1,100 ggA,989 1,100 55 100 55 10 15 10 15 10 15 10 15 10 15 10 15 10 15 10 10 15 in an in a set you 100 sp 1988 , 100 st 9 98 100 00 51 4 989 240 100 2 X 4 98 Per Capita Annual Income (2012 Dollars) **Core Place** \$28,537 Core Place G&I Area \$32,228 **G&I Area** All Core Places · · · · · All G&I Areas

	<u>En</u>	npire				21	G&
Policy							
		Core P	lace Unit	s of Governn	nent Interview	/ed	
Data Source: Commercial Corridor I	nventory Interview	Village of Empi	re				
Year of Master Plan Approval		2012					
Master Plan Update		NA					
Community Economic Strate	39	No					
Economic Strategy Coordinates	with Regional Strategy	NA					
Growth & Investment Strateg	у	No					
Identify Areas of Focus for Grow		No					
Active G&I Strategy Developmen	t Discussions	No					
Planning Zoning Benchmarks		NA					
Development Opportunities o	n Corridor	Yes					
Redevelopment Priorities Identific	ed	No					
Redevelopment Resources Ident	ified	No					
Market Potential Development Si	ites	No					
Guides and Resources							
Publish Development Guide		No					
Zoning Orientation Package Prov	vided to Staff & Committees	NA					
Zoning Training Funding		NA					
Community Marketing Strateg	зу	No					
Area Plans							
Downtown Plan  Downtown Development	t Authority	No					
Corridor Improvement Plan Corridor Improvement A	uthority	No					
Zoning							
Zoning	Districts in Identified Commer	cial D	x Dwelling ensity for istricts in	% of Districts in Corridors where Mixed Use is	% of Districts in Corridors where Multi-Family Use is	Max Bu Height A in Corr	llowed
Coning Authority vith Identified Commercial Corridors	Corridors		Corridors	allowed by Right	allowed by Right	0011	

page 8 Em	pire		<b>21</b> G&I
Talent Jobshed			
	Core Place	G&I Area	
Census Data	Village of Empire	Village of Empire, Empire Township	
Workers Living within Study Area	308	498	
Worker Density (per acre)	0.42	0.02	
Worker's Earnings			
% with earnings \$1250/month or less	34%	30%	
% with earnings \$1251/month to \$3333/month	34%	37%	
% with earnings greater than \$3333/month	32%	34%	
Jobs Located in Area	187	417	
Job Density (per acre)	0.25	0.02	
Commute Data for Workers Employed in Core Place			
Commuting data for workers residing from 2 - 175 miles from G&I A	rea 157	40/ Communities of F	Miles en Lees
Commuting Workers	157	4% Commuting 5	wiles or Less
<b>Total Daily One Way Commute for all Commuters</b>			
Route Distance (Miles)	4,542		
Commute Time (Minutes)	5,882		
Total Annual Commute for all Commuters			
Distance (Miles)	2,384,332		
Time (Hours)	51,468		
Annual Commuting Costs			
Total Fuel Cost	362,833		
Total Cost (IRS 2014 Standard Mileage Rate)	\$1,335,226		
Average Per Worker Commute	Daily (2-Way)	Annual	
Distance (Miles)	58	15,187	
Time (Hours) Cost (IRS Standard Mileage Rate)	1.2 <b>\$32</b>	328 <b>\$8,505</b>	
	Ψ32	Ψ0,303	
Retail Activity  Core Place Activity	G&I Area Activ	vity Cou	nty Activity
Total Retail Sales \$7,296,055	\$12,687,9		31,952,644
Total Potential Retail Sales \$5,263,769	\$15,471,4		81,293,904
<b>Leakage</b> (\$2,032,286)	\$2,783,5	<b>538</b> \$1	49,341,260
Classification: Retail Potential Exporter  Residents of the Empire Growth & Investment outside the area.	nt Area are making 18% of	their purchases at b	usinesses located

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$1,821,795	\$1,937,906	94%
Health/Personal Care Stores	\$0	\$1,312,830	0%
Clothing & Accessories Stores	\$0	\$697,770	0%
Sport/Hobby/Book/Music Stores	\$206,644	\$356,448	58%
General Merchandise Stores	\$0	\$3,206,672	0%
Food & Beverage Establishments	\$472,983	\$1,343,314	35%
E-Shopping/Mail-Order	\$0	\$796,842	0%

Corridor Street Name(s): West Front Street from South Lake Street to M22

Corridor Classification: Central Business District

Unit(s) of Government: Village of Empire

Length:0.26 milesStreet Classification:Local2013 Traffic Volume(AADT):NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

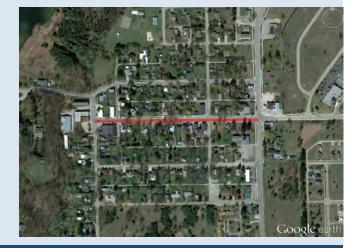
Parking Parallel

Transit Service: BATA - Dial-A-Ride

Bike Lane: No Entertainment Venues: No

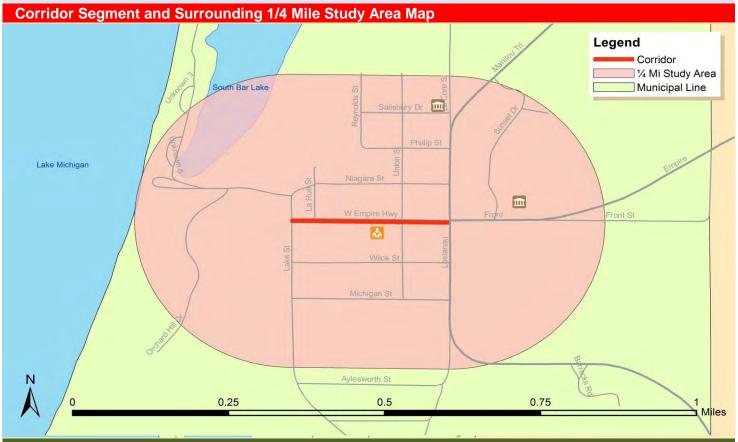
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 37



#### **Corridor Overview**

The West Front Street CBD Corridor is planned to accommodate a mix of residential, commercial, and some public service uses. The existing commercial uses are primarily retail and service types of uses. The designated area incorporates both existing commercial enterprises and provides additional area for expansion. It is preferred that new development be located in the heart of the designated area, primarily along Front Street between LaCore and Lake Street. The Village core area is intended to maintain the current pedestrian-friendly atmosphere.



#### **Economic Development**

Community policies or activities assisting economic development (Village of Empire)

Growth & Investment Strategy	No	Community Economic Strategy	No
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 10 Empir	e 10 Empire West Front Street CBD						
Study Area Summary for 1/4 Mile Area Surrounding the Corridor							
	Corridor Segment	G&I Core Place	G&I Area				
Census Data	Empire West Front Street CBD	Village of Empire	Empire				
Total Population (2010)	282	375	1,182				
People per Acre	1.39	0.51	0.05				
People per Square Mile	892	326	34				
Total Housing (2010)	279	347	1,088				
Gross Neighborhood Density (per acre)	1.38	0.47	0.05				
Study Area Size (Land Cover)							
Acres	202.34	736.00	22,553.60				
Square Miles	0.32	1.15	35.24				
Workers Living within Study Area	288	308	498				
% with earnings \$1250/month or less	36%	34%	30%				
% with earnings \$1251/month to \$3333/month	34%	34%	37%				
% with earnings greater than \$3333/month	31%	32%	34%				
Jobs Located within Study Area	187	187	417				
Job Density (per acre)	0.92	0.25	0.02				

Zoning						
		% of Districts That				Max Building Height
District(s)	Allow Residential Allow Multi-Family Use by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District		
CR	100%	0%	100%	8.7	8.7	35 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	No
Iconic Buildings	Yes	Pocket Parks	No
Empire Township Hall		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

Leelanau Highway (M22) from Ottawa Street to Ontario Street; West Empire Highway (M72) from M22 to NPS Entrance Corridor Street Name(s):

Commercial/Industrial **Corridor Classification:** Unit(s) of Government: Village of Empire

0.76 miles Length: Minor Arterial **Street Classification:** 

2013 Traffic Volume(AADT): 2,942 Source: MDOT **Number of Traffic Lanes:** 2, Bi-Directional Traffic

Parallel **Parking** 

BATA - Dial-A-Ride **Transit Service:** 

Bike Lane: No **Entertainment Venues:** No

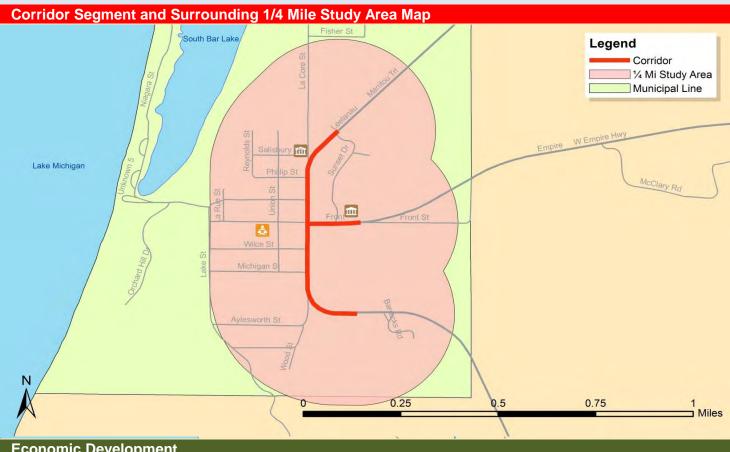
**Pedestrian Amenities:** Sidewalks, Crosswalks

**Walk Score** 34



#### **Corridor Overview**

Due to the location of the National Park Service Visitor Center on M-72 and National Park campgrounds nearby, the Village of Empire is experiencing an increase in the numbers of day visitors, most notably during the summer months. Land for more parking is not readily available, thus pedestrian routes and connections are becoming increasingly important. The corridor along the LaCore Street portion of M-22, accommodates commercial uses designed to serve the shopping and service needs of pass-through traffic as well as local residents and visitors. The goal of design standards is provide safe routes for pedestrians, encourage shared driveways, shared parking, setback requirements consistent with the Village character, and compatible with adjacent land uses and natural constraints.



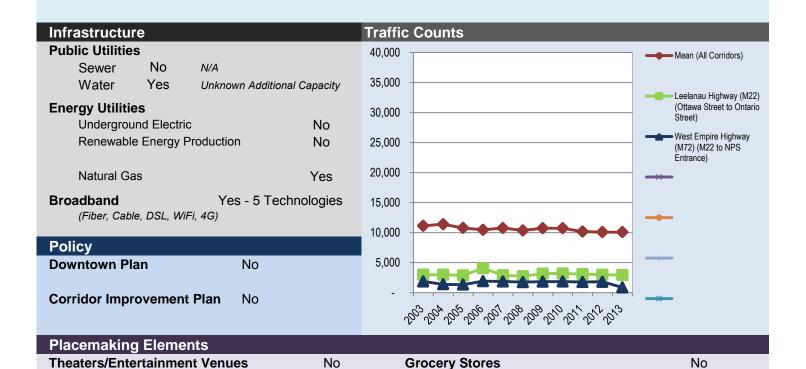
#### **Economic Development**

Community policies or activities assisting economic development (Village of Empire)

Growth & Investment Strategy	No	Community Economic Strategy	No
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 12	<b>53</b> cc		
Study Area Summary for 1/4 Mile Area	Surrounding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Empire M22 Corridor	Village of Empire	Empire
Total Population (2010)	318	375	1,182
People per Acre	0.94	0.51	0.05
People per Square Mile	603	326	34
Total Housing (2010)	292	347	1,088
Gross Neighborhood Density (per acre)	0.86	0.47	0.05
Study Area Size (Land Cover)			
Acres	337.72	736.00	22,553.60
Square Miles	0.53	1.15	35.24
Workers Living within Study Area	293	308	498
% with earnings \$1250/month or less	35%	34%	30%
% with earnings \$1251/month to \$3333/month	h 34%	34%	37%
% with earnings greater than \$3333/month	31%	32%	34%
Jobs Located within Study Area	187	187	417
Job Density (per acre)	0.55	0.25	0.02

Zoning						
		% of Districts That Allow Multi-Family by Right	% of Districts That Allow Mixed Use By Right	Max Residential Site Density		Max Building
District(s)	Allow Residential Use			Lowest Density District	Highest Density District	Height
GR   MR   CR   PUD	100%	50%	25%	3.5	8.7	35 ft



Restaurants

**Pocket Parks** 

Wayfinding

**Parks** 

Yes

**Iconic Buildings** 

Sleeping Bear National Lakeshore Headquarters

Sidewalk Cafés

**Public Art Installations** 

**Pedestrian Connections** 

Yes

No

Yes

No

No

No

Yes

# **Growth & Investment Area Unit(s) of Government:**

Leland Township

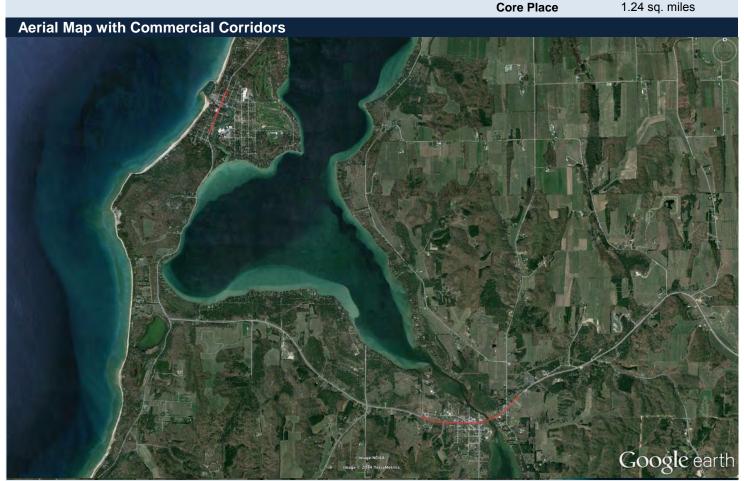
#### **Core Place Census Areas:**

Leland CDP, Lake Leelanau CDP

County Census Class Land Area

Leelanau Rural G&I Area 45.37 sq. miles

Core Place 1.24 sq. miles



## 2 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)

Population Density Range of G&I Area Corridors (per acre)

Gross Neighborhood Density Range of G&I Area Corridors (per acre)

Job Density Range of G&I Area Corridors (per acre)

Worker Density Range of G&I Area Corridors (per acre)

2,931

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

0.9 - 1.1

Worker Density Range of G&I Area Corridors (per acre)

0.3 - 0.4

Retail

**Total Sales** \$21,136,062 **Classification:** Retail Potential Exporter

Potential Sales \$27,113,844

**Leakage** \$5,977,782 **Seasonal Housing:** 45.2% of G&I Area Housing

Sprawl

Percentage of Housing in the Core Place is Growing by 2.2%

**Population** 

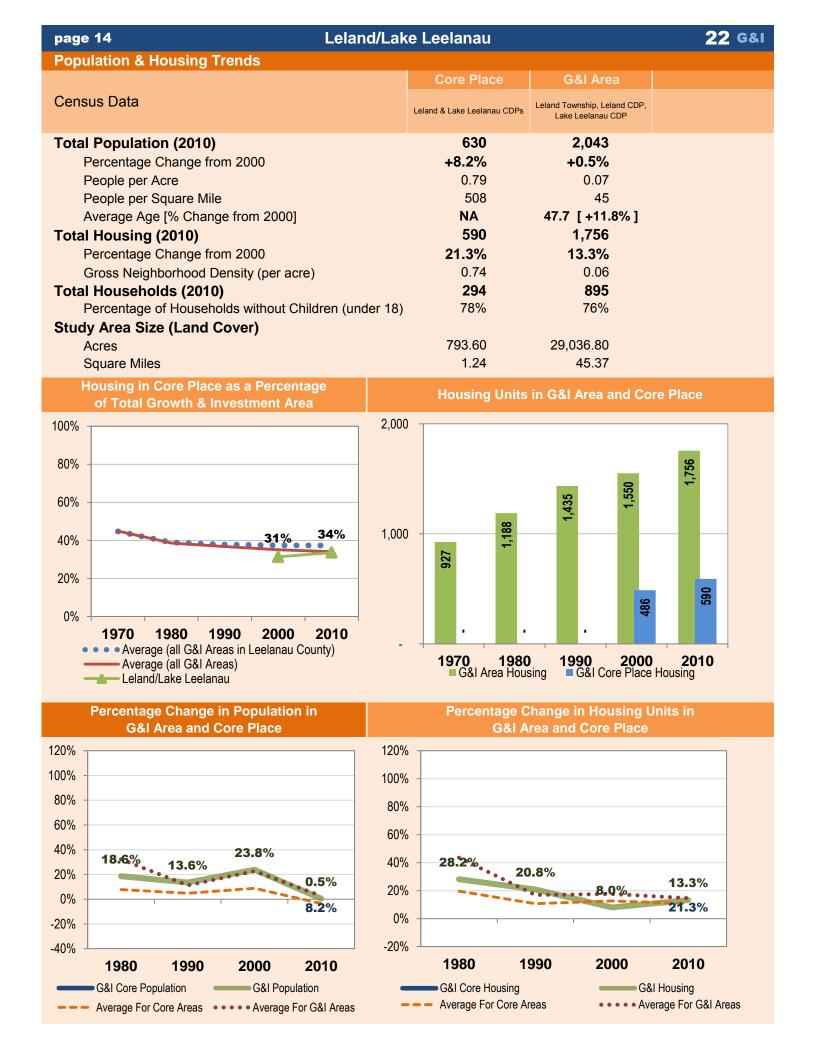
2000-2010: Growing at 0.5% with the Core Place Growing at 8.2%

Average Age: 47.7 [+11.8% change from 2000 Census]

Demographic Shifts: Baby Boomers had the largest % gain (up 15.6%); Millennial Generation had the largest % loss (down -26.3%)

Jobshed

Worker Importer - Number of Jobs exceeds Resident Worker population by 37%



G&I	22	Leland/Lake Leelanau	page 15
	wth 8	& Investment Readiness Assessment	Criteria Status
iteria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
ectio	3	Government Staff	Yes
Initial Selection Criteria	4	Master Plan Includes Higher Density Center	Yes
Initia	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	Yes
Ø	7	Housing Growth Rate Over 15% (2000-2010 Census)	No
s Data	8	Core Place Housing Growth Increasing Faster than Surrounding Area	Yes
Census Data	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
Ö	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	No
5.	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
Polic	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
Zoning Policy	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
Zo	16	No On Site Parking Requirement in Central Business District	Qualified Yes
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	No
king	19	Retail Hub	No
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
_	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	No
ppor	22	Fixed Route Transit (Headways 15 mins or less)	No
0	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
Ó	26	Additional Water Capacity	No
Infrastructure	27	Additional Sewer Capacity	Yes
rastr	28	Broadband Service over 1 Gbps Available	No
<u>=</u>	29	Municipal WiFi	No

pag	Leia	Leiand/Lake Leciandu				
Cor	nmercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
54	Leland Township M204 Lake Leelanau Corridor	5,155	1.4	0.8	0.9	0.4
55	Leland Township M22 Leland Corridor	2,296	1.5	1.9	1.1	0.3

l eland/l ake l eelanau

22 G&I



**Home Heating Fuel** 

Percent of Homes Natural Gas	65%	42%
Percent of Homes Using Propane	2%	22%
Percent of Homes Using Wood	4%	6%
Percent of Homes Using Solar Energy	0%	0%

# **Personal Income**

# Census-ACS Data (2008-2012 5 Year Summary File)

Median Household Income (2012 Dollars)		Household Income Distribution
Core Place	<b>474</b> 000	15%
Leland CDP	\$71,023	
Lake Leelanau CDP	\$33,750	10%
G&I Area	\$57,625	
Leland Township	\$57,625	0%  Leading to the state of the
Per Capita Annual Inco	me (2012 Dollars)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Core Place	\$30,134	Core Place —— G&I Area
G&I Area	\$34,018	■ ■ All Core Places · · · · · All G&I Areas

	Leland/La	ake Leela	nau			<b>22</b> G&
Policy						
		Core	Place Uni	ts of Governn	nent Interview	ved
Data Source: Commercial Corridor I	nventory Interview	Leland Tow	nship			
Year of Master Plan Approval		2008				
Master Plan Update		NA				
Community Economic Strate	ду	No				
Economic Strategy Coordinates	with Regional Strategy	No				
Growth & Investment Strateg	у	Yes				
Identify Areas of Focus for Grow	th & Investment Strategy	Yes				
Active G&I Strategy Developmer	nt Discussions	Yes				
Planning Zoning Benchmarks		Yes				
Development Opportunities of		Yes				
Redevelopment Priorities Identifi	ed	No				
Redevelopment Resources Ident	tified	No				
Market Potential Development S	ites	No				
Guides and Resources						
Publish Development Guide		No				
Zoning Orientation Package Prov	vided to Staff & Committees	Yes				
Zoning Training Funding		Yes				
Community Marketing Strates	ЭУ	No				
Area Plans						
Downtown Plan Downtown Developmen	t Authority	Yes				
Corridor Improvement Plan Corridor Improvement A	uthority	No				
Zoning						
	Districts in Identified Commer		Max Dwelling Density for	% of Districts in Corridors where	% of Districts in Corridors where Multi-Family Use is	Max Building Height Allowed
Coning Authority with Identified Commercial Corridors	s Corridors		Districts in Corridors	Mixed Use is allowed by Right	allowed by Right	in Corridors

			ing Elements	Supporting V	Walkability		
ID	Name	Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio	
54	Leland Township M204 Lake Leelanau Corridor	No	Yes	Yes	No	0.619	
55	Leland Township M22 Leland Corridor	No	No	Yes	No	0.733	

page 20	Leland/Lak	e Leelanau		<b>22</b> G&I
Talent Jobshed				
		Core Place	G&I Area	
Census Data		Leland & Lake Leelanau CDPs	Leland Township, Leland CDP, Lake Leelanau CDP	
Workers Living within Study Area		154	497	
Worker Density (per acre)		0.19	0.02	
,				
Worker's Earnings				
% with earnings \$1250/month or les		36%	34%	
% with earnings \$1251/month to \$3		33%	37%	
% with earnings greater than \$3333	/month	31%	29%	
laka Laastadin Anaa		207	600	
Jobs Located in Area		<b>297</b>	<b>682</b>	
Job Density (per acre)		0.37	0.02	
Commute Data for Workers Emplo	yed in Core Plac	e		
Commuting data for workers residing from 2	- 175 miles from G&I Ar	rea		
Commuting Workers		270	14% Commuting 5	Miles or Less
<b>Total Daily One Way Commute for</b>	all Commuters			
Route Distance (Miles)		9,004		
Commute Time (Minutes)		11,617		
Total Annual Commute for all Com	nmuters			
Distance (Miles)		4,726,872		
Time (Hours)		101,647		
Annual Commuting Costs		,		
Total Fuel Cost		719,307		
Total Fuel Cost  Total Cost (IRS 2014 Standard Mile	ane Rate)	\$2,647,048		
· ·	age Nate)		A	
Average Per Worker Commute		Daily (2-Way)	Annual	
Distance (Miles)		67	17,507	
Time (Hours)		1.4 <b>¢27</b>	376 \$0.804	
Cost (IRS Standard Mileage Rate)		\$37	\$9,804	
Retail Activity				
	Core Place Activity	G&I Area Ad	ctivity Cou	nty Activity
Total Retail Sales	\$14,865,847	\$21,130	<b>6,062</b> \$1	31,952,644
Total Potential Retail Sales	\$9,071,037	\$27,113	3.844 \$2	81,293,904
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# Classification: Retail Potential Exporter

Leakage

Residents of the Leland/Lake Leelanau Growth & Investment Area are making 22% of their purchases at businesses located outside the area.

\$5,977,782

\$149,341,260

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$2,725,696	\$3,367,403	81%
Health/Personal Care Stores	\$0	\$2,336,425	0%
Clothing & Accessories Stores	\$2,445,225	\$1,278,353	191%
Sport/Hobby/Book/Music Stores	\$721,604	\$610,275	118%
General Merchandise Stores	\$1,127,385	\$5,585,107	20%
Food & Beverage Establishments	\$5,932,988	\$2,439,112	243%
E-Shopping/Mail-Order	\$0	\$1,409,092	0%

(\$5,794,810)

Corridor Street Name(s): East Philip Street (M204) from Plamondon Road to S. Lake Leelanau Drive

Corridor Classification: Commercial/Industrial
Unit(s) of Government: Leland Township

Length: 0.98 miles
Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 2,931 Source: MDOTNumber of Traffic Lanes: 2, Bi-Directional Traffic

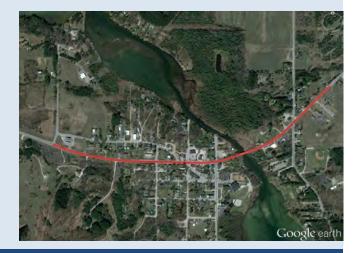
Parking Parallel

Transit Service: BATA - Fixed Route

Bike Lane: No Entertainment Venues: No

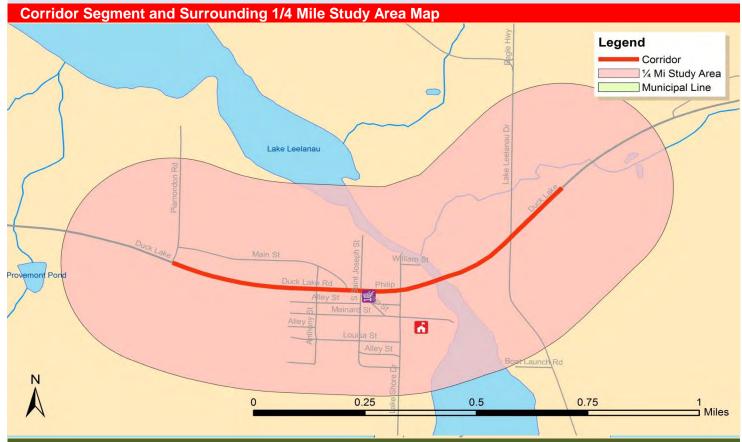
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 37



#### **Corridor Overview**

The M-204 Lake Leelanau Corridor accommodates a mixture of residential and nonresidential land uses within a village setting. In light of the geographic limitations associated with Leland Village, Lake Leelanau village is intended to play a particularly important role in accommodating urban oriented growth in the Township in the future including commercial and light industrial development. It is the intent of this plan that Lake Leelanau Village maintain its compact developed pattern and "small village" character and that all future development and redevelopment be of such character and design to further continue the Village's existing identity and current character.



#### **Economic Development**

Community policies or activities assisting economic development (Leland Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 22 Leland Township M204	<b>54</b> cc		
Study Area Summary for 1/4 Mile Area Surroundin	g the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Leland Township M204 Lake Leelanau Corridor	Leland & Lake Leelanau CDPs	Leland/Lake Leelanau
Total Population (2010)	606	630	2,043
People per Acre	1.44	0.79	0.07
People per Square Mile	923	508	45
Total Housing (2010)	353	590	1,756
Gross Neighborhood Density (per acre)	0.84	0.74	0.06
Study Area Size (Land Cover)			
Acres	420.35	793.60	29,036.80
Square Miles	0.66	1.24	45.37
Workers Living within Study Area	187	154	497
% with earnings \$1250/month or less	34%	36%	34%
% with earnings \$1251/month to \$3333/month	38%	33%	37%
% with earnings greater than \$3333/month	28%	31%	29%
Jobs Located within Study Area	375	297	682
Job Density (per acre)	0.89	0.37	0.02

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
AR   C-1   C-2	100%	33%	67%	0.5	26.6	40 ft



Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	No
Iconic Buildings	No	Pocket Parks	Yes
•		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	No

Corridor Street Name(s): Main Street (M22) from William Street to Thompson Street

Corridor Classification: Central Business District

Unit(s) of Government: Leland Township

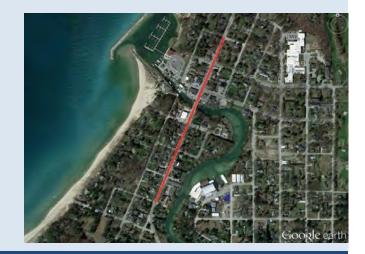
Length: 0.43 miles
Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 1,272 Source: MDOTNumber of Traffic Lanes: 2, Bi-Directional Traffic

Parking Parallel

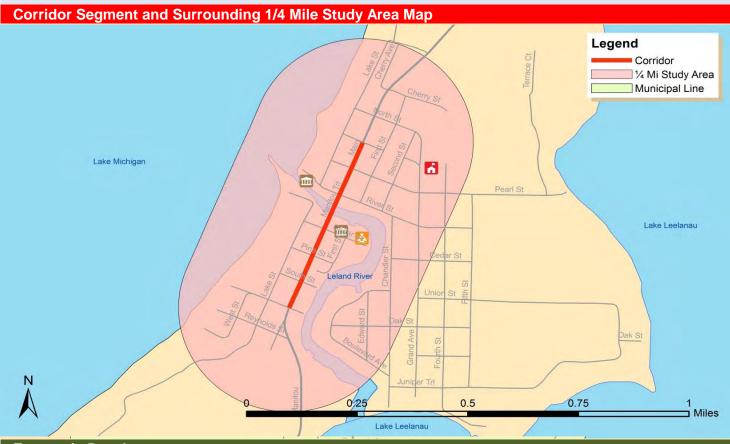
Transit Service: BATA - Dial-A-Ride

Bike Lane: No
Entertainment Venues: No
Pedestrian Amenities: Sidewalks
Walk Score 66



#### **Corridor Overview**

The M-22 Leland Corridor is intended to accommodate a mixture of residential and commercial land uses in the similar manner it has accommodated such uses to this point in time. It is desired that Leland Village maintain its compact developed pattern and "small village" character and that all future development or redevelopment be of such character and design to continue the Village's existing identity and current character. Retail orientated establishments are focused in the rectangular area formed by Lake Street, William Street, First Street, and the Leland River, and extending along both sides of the river to include Fishtown area to the west and along the north side of the river to Chandler Street to the east, with the provision for transitional uses beyond the core.



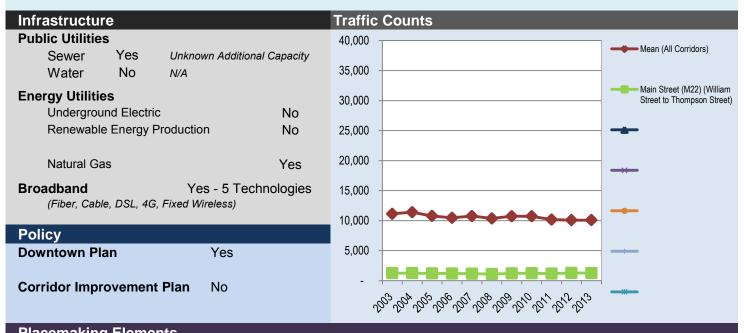
#### **Economic Development**

Community policies or activities assisting economic development (Leland Township)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	No

page 24 Leland Township	Leland Township M22 Leland Corridor					
Study Area Summary for 1/4 Mile Area Surround	ing the Corridor					
	Corridor Segment	G&I Core Place	G&I Area			
Census Data	Leland Township M22 Leland Corridor	Leland & Lake Leelanau CDPs	Leland/Lake Leelanau			
Total Population (2010)	315	630	2,043			
People per Acre	1.46	0.79	0.07			
People per Square Mile	933	508	45			
Total Housing (2010)	410	590	1,756			
Gross Neighborhood Density (per acre)	1.90	0.74	0.06			
Study Area Size (Land Cover)						
Acres	215.97	793.60	29,036.80			
Square Miles	0.34	1.24	45.37			
Workers Living within Study Area	75	154	497			
% with earnings \$1250/month or less	36%	36%	34%			
% with earnings \$1251/month to \$3333/month	32%	33%	37%			
% with earnings greater than \$3333/month	32%	31%	29%			
Jobs Located within Study Area	231	297	682			
Job Density (per acre)	1.07	0.37	0.02			

Zoning						
			% of Districts That	Max Resident	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-2   C-1	100%	50%	50%	2.9	26.6	35 ft



Placemaking Elements			
Theaters/Entertainment Venues	No	Grocery Stores	No
		Restaurants	Yes
		Sidewalk Cafés	Yes
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	No
Fishtown Preservation, The Old Art Building, Falling		Public Art Installations	No
Waters Lodge, Riverside Inn		Wayfinding	No
		Pedestrian Connections	No

# **Growth & Investment Area Unit(s) of Government:**

Village of Northport, Leelanau Township

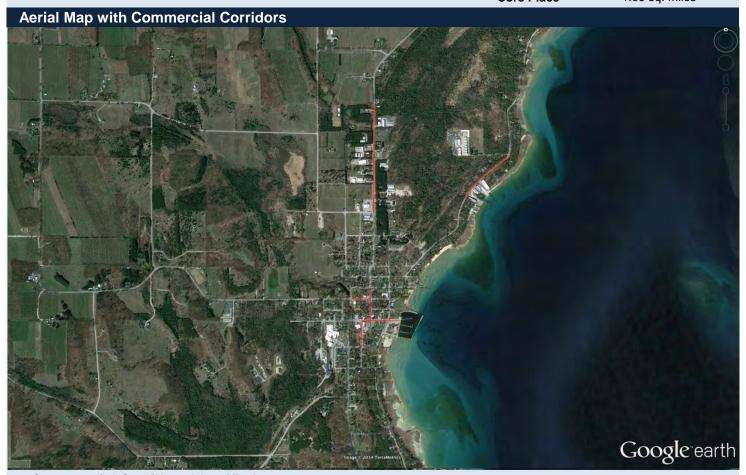
#### **Core Place Census Areas:**

Village of Northport

County Census Class Land Area

Leelanau Rural G&I Area 49.15 sq. miles

Core Place 1.65 sq. miles



# 3 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)	2,981	2013 Data Year
Population Density Range of G&I Area Corridors (per acre)	0.4 - 1.8	Density calculations a derived from the
Gross Neighborhood Density Range of G&I Area Corridors (per acre)	0.6 - 2.3	area within a 1/4 mile of Corridor (Corridor Study Area)
Job Density Range of G&I Area Corridors (per acre)	0.2 - 0.4	(Comaci Clady Alled)
Worker Density Range of G&I Area Corridors (per acre)	0.2 - 0.6	

#### Retail

<b>Total Sales</b> \$8,039,722	Classification:	Retail Potential Exporter
--------------------------------	-----------------	---------------------------

Potential Sales \$28,536,643

**Leakage** \$20,496,921 **Seasonal Housing:** 46.4% of G&I Area Housing

# **Sprawl**

Percentage of Housing in the Core Place is Declining by -1.6%

## **Population**

2000-2010: Declining at -5.2% with the Core Place Declining at -18.8%

Average Age: 52.6 [+13.5% change from 2000 Census]

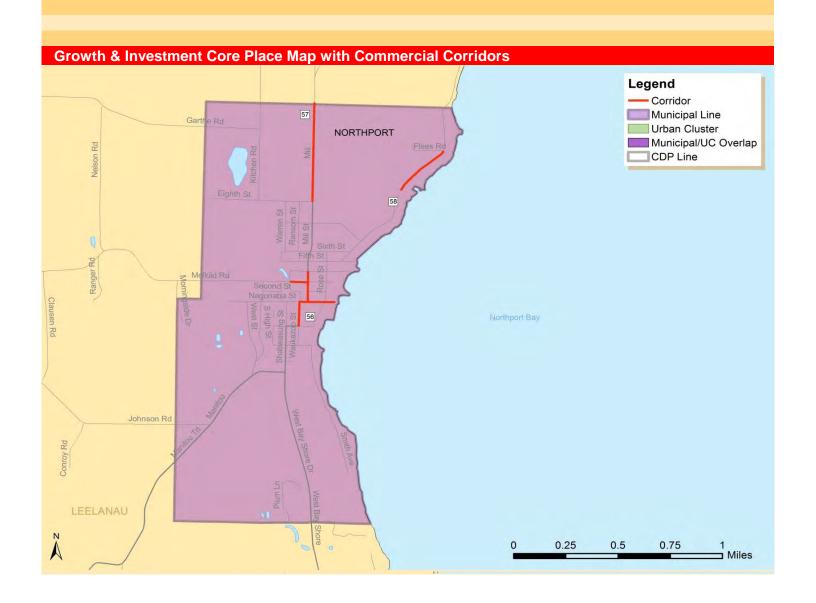
Demographic Shifts: Baby Boomers had the largest % gain (up 15.9%); Millennial Generation had the largest % loss (down -35.6%)

#### **Jobshed**

Worker Exporter - Resident Worker population exceeds the number of Jobs by 49%

G&I	23	Northport	page 27
Gro	wth 8	Investment Readiness Assessment	Criteria Status
teria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
ectio	3	Government Staff	Yes
Initial Selection Criteria	4	Master Plan Includes Higher Density Center	Yes
Initi	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	No
Ġ	7	Housing Growth Rate Over 15% (2000-2010 Census)	No
Census Data	8	Core Place Housing Growth Increasing Faster than Surrounding Area	No
ensu	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
0	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
Zoning Policy	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	No
	15	Building Height Limits Greater than 35 feet in Commercial Corridors	No
Ž	16	No On Site Parking Requirement in Central Business District	No
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	No
king	19	Retail Hub	No
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
<u>ج</u>	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	No
oddc	22	Fixed Route Transit (Headways 15 mins or less)	No
	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
e e	26	Additional Water Capacity	No
Infrastructure	27	Additional Sewer Capacity	Yes
ıfrastı	28	Broadband Service over 1 Gbps Available	No
트	29	Municipal WiFi	No

pag	e 28	Northport				23 G&I
Cor	nmercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
56	Northport CBD	2,876	2.3	1.8	0.4	0.6
57	Northport D1 Commercial/Industrial	2,706	0.6	0.4	0.2	0.2
58	Northport Waterfront Commercial	1,553	0.7	0.8	0.3	0.2



#### \$49,643 **Core Place** 20% \$49,643 Village of Northport 15% \$61,875 **G&I Area** 10% \$49.643 Village of Northport Leelanau Township \$61,875 5% 0% AN OO SA A SS 100 24 188 1,100 ggA,989 100 55 100 55 10 1 1111 at 100 at 0 389 1100 sto 100 sto 1999 1,100 100 5 A 989 200,00 5 7A,98 Per Capita Annual Income (2012 Dollars) **Core Place** \$22,354 Core Place G&I Area \$39,464 **G&I Area** - All Core Places ••••• All G&I Areas

Policy  Pata Source: Commercial Corridor Inventory  Year of Master Plan Approval  Master Plan Update  Community Economic Strategy  Economic Strategy Coordinates with Regin  Growth & Investment Strategy  Identify Areas of Focus for Growth & Invest  Active G&I Strategy Development Discuss  Planning Zoning Benchmarks  Development Opportunities on Corri  Redevelopment Priorities Identified  Redevelopment Resources Identified  Market Potential Development Sites  Guides and Resources  Publish Development Guide  Zoning Orientation Package Provided to Staning Training Funding	onal Strategy stment Strategy sions	Village Northp  201  NA  NO  NA  Yes  NO  NA  NA  NO  NA  NO  NA  NO	of ort	ts of Governm	nent Interview	ved
Year of Master Plan Approval Master Plan Update  Community Economic Strategy Economic Strategy Coordinates with Regin Growth & Investment Strategy Identify Areas of Focus for Growth & Investment Discuss Planning Zoning Benchmarks  Development Opportunities on Corri Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to Sites	onal Strategy stment Strategy sions	Village Northp  201  NA  NO  NA  Yes  NO  NA  NA  NA  NA  NO	of ort	ts of Governn	nent Interview	/ed
Year of Master Plan Approval  Master Plan Update  Community Economic Strategy  Economic Strategy Coordinates with Region  Growth & Investment Strategy  Identify Areas of Focus for Growth & Investment Discussion  Active G&I Strategy Development Discussion  Planning Zoning Benchmarks  Development Opportunities on Correspondent Priorities Identified  Redevelopment Resources Identified  Market Potential Development Sites  Guides and Resources  Publish Development Guide  Zoning Orientation Package Provided to States	onal Strategy stment Strategy sions	Northp 201 NA NO NA Yes NO NA NA NA NO	1 3			
Community Economic Strategy Economic Strategy Coordinates with Regin Growth & Investment Strategy Identify Areas of Focus for Growth & Investment Discuss Active G&I Strategy Development Discuss Planning Zoning Benchmarks  Development Opportunities on Corri Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to Sites	stment Strategy sions	NA No NA Yes No NA NA NA NO	5			
Community Economic Strategy  Economic Strategy Coordinates with Region  Growth & Investment Strategy  Identify Areas of Focus for Growth & Investment Discussion  Active G&I Strategy Development Discussion  Planning Zoning Benchmarks  Development Opportunities on Correspondent Priorities Identified  Redevelopment Resources Identified  Market Potential Development Sites  Guides and Resources  Publish Development Guide  Zoning Orientation Package Provided to States	stment Strategy sions	No NA Yes No NA NA No	3			
Growth & Investment Strategy  Identify Areas of Focus for Growth & Investment Operation of Planning Zoning Benchmarks  Development Opportunities on Corrice Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources  Publish Development Guide Zoning Orientation Package Provided to Sites	stment Strategy sions	Yes No NA NA Yes No NA	3			
Growth & Investment Strategy  Identify Areas of Focus for Growth & Investment Operation of Planning Zoning Benchmarks  Development Opportunities on Corrice Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources  Publish Development Guide Zoning Orientation Package Provided to Sites	stment Strategy sions	Yes No NA NA Yes No NA	3			
Growth & Investment Strategy  Identify Areas of Focus for Growth & Invest Active G&I Strategy Development Discuss Planning Zoning Benchmarks  Development Opportunities on Corri Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to Sites	stment Strategy sions	Yes No NA NA Yes No NA				
Identify Areas of Focus for Growth & Invest Active G&I Strategy Development Discuss Planning Zoning Benchmarks  Development Opportunities on Corri Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to Sites	idor	No NA NA Yes No NA No				
Active G&I Strategy Development Discuss Planning Zoning Benchmarks  Development Opportunities on Corri Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to Sites	idor	Yes No NA No	3			
Planning Zoning Benchmarks  Development Opportunities on Corri Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to S	idor	Yes No NA No	<b>S</b>			
Development Opportunities on Corre Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to S		Yes No NA No	3			
Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to S		No NA No	3			
Redevelopment Priorities Identified Redevelopment Resources Identified Market Potential Development Sites  Guides and Resources Publish Development Guide Zoning Orientation Package Provided to S		NA No				
Market Potential Development Sites  Guides and Resources  Publish Development Guide  Zoning Orientation Package Provided to S	Staff & Committees	No				
Guides and Resources  Publish Development Guide  Zoning Orientation Package Provided to S	Staff & Committees					
Publish Development Guide  Zoning Orientation Package Provided to S	staff & Committees	No				
Publish Development Guide  Zoning Orientation Package Provided to S	staff & Committees	No				
Zoning Orientation Package Provided to S	taff & Committees	INO				
	tatt & Committees	V				
Zoning Training Funding		Yes Yes				
		res				
Community Marketing Strategy		No				
Area Plans						
Downtown Plan		No				
Downtown Development Authority	/					
Corridor Improvement Plan Corridor Improvement Authority		No				
Zoning						
	s in Identified Commercia ors	al	Max Dwelling Density for Districts in Corridors	% of Districts in Corridors where Mixed Use is allowed by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Building Height Allowe in Corridors
Village of Northport CN-1   R	-2   CR-1   C-1   C-2   D-1		46	17%	0%	35 ft

Cor	nmercial Corridor Placemaking Elements					
		Placemaki	ng Elements	Supporting V	Valkability	
ID	Name	Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio
56	Northport CBD	No	Yes	Yes	Yes	0.190
57	Northport D1 Commercial/Industrial	No	No	No	No	0.274
58	Northport Waterfront Commercial	No	No	No	No	0.359

page 32	Northport	<b>23</b> G					
Talent Jobshed							
	Core Place	G&I Area					
Census Data	Village of Northport	Village of Northport, Leelanau Township					
Workers Living within Study Area	144	747					
Worker Density (per acre)	0.14	0.02					
Worker's Earnings							
% with earnings \$1250/month or less	25%	29%					
% with earnings \$1251/month to \$3333/mor		40%					
% with earnings greater than \$3333/month	32%	31%					
Jobs Located in Area	311	384					
Job Density (per acre)	0.29	0.01					
Commute Data for Workers Employed in	Core Place						
Commuting data for workers residing from 2 - 175 miles from G&I Area							
Commuting Workers	247	27% Commuting 5 Miles or Less					
<b>Total Daily One Way Commute for all Cor</b>	mmuters						
Route Distance (Miles)	6,667						
Commute Time (Minutes)	9,343						
<b>Total Annual Commute for all Commuters</b>	S						
Distance (Miles)	3,500,050						
Time (Hours)	81,748						
Annual Commuting Costs							
Total Fuel Cost	532,616						
Total Cost (IRS 2014 Standard Mileage Rat	te) <b>\$1,960,028</b>						
Average Per Worker Commute	Daily (2-Way)	Annual					
Distance (Miles)	54	14,170					
Time (Hours)	1.3	331					
Cost (IRS Standard Mileage Rate)	\$30	\$7,935					
Retail Activity	ooo Activity Col Area	Activity County Activity					
	ace Activity G&I Area						
		<b>339,722</b> \$131,952,644					
		536,643 \$281,293,904 196 921 \$149 341 260					
Leakage \$4	4,670,111 <b>\$20,</b> 4	<b>196,921</b> \$149,341,260					
Classification: Retail Potential Exporter							

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$490,447	\$3,551,511	14%
Health/Personal Care Stores	\$0	\$2,458,273	0%
Clothing & Accessories Stores	\$619,066	\$1,329,855	47%
Sport/Hobby/Book/Music Stores	\$349,094	\$643,959	54%
General Merchandise Stores	\$0	\$5,884,959	0%
Food & Beverage Establishments	\$0	\$2,544,660	0%
E-Shopping/Mail-Order	\$0	\$1,481,554	0%

Corridor Street Name(s): S. Waukazoo/W. Nagonaba/Mills Streets (M201) from Main Street to 4th Street; East Nagonaba Street from Mill Street to Marina; 3rd

Street from W 4th Street to Mill Street

Corridor Classification: Central Business District
Unit(s) of Government: Village of Northport

Length: 0.54 miles

Street Classification:Major Collector, Local2013 Traffic Volume(AADT):2,981Source: MDOT, N/ANumber of Traffic Lanes:2, Bi-Directional Traffic

Parking Parallel, Diagonal

Transit Service: BATA - Dial-A-Ride

Bike Lane: No Entertainment Venues: No

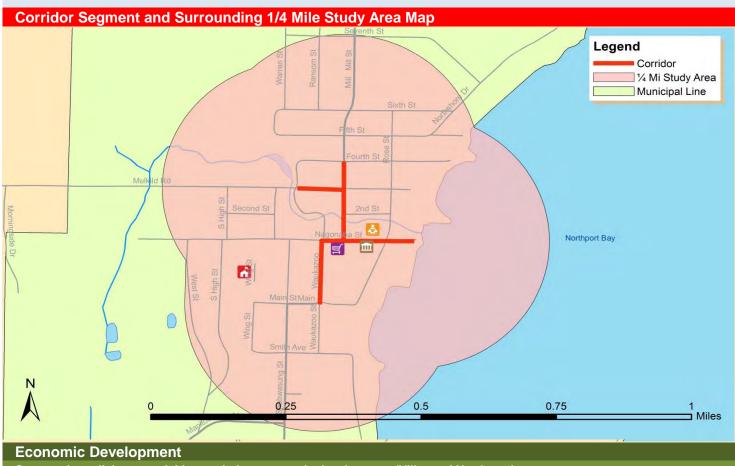
Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 69



#### **Corridor Overview**

The Northport CBD is the major commercial service area of the Village and Township. This location is critical to Northport because it maintains the character of the downtown and supports the existing commercial establishments. The supportive relationship between the downtown and the scenic waterfront, marina and park area should be preserved as a vital component of the Village's character. Development in this location needs to be compact and walkable, with buildings gracing the streetline and defining the walkway edge. The walkway edge should have sidewalks and street trees. Parking should be located along the street or in small unobtrusive parking lots.

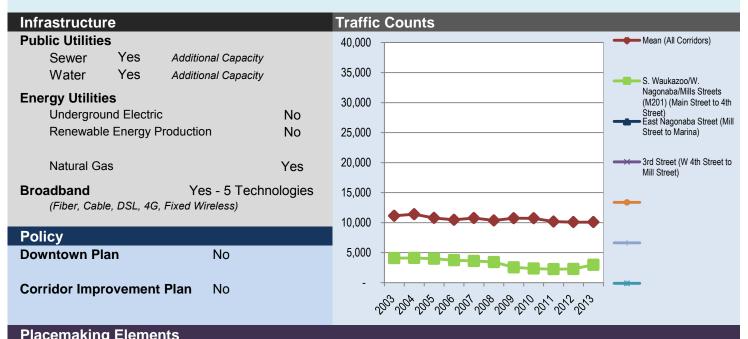


Community policies or activities assisting economic development (Village of Northport)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 34	Northport CBD					
Study Area Summary for 1/4 Mile Area Surrounding the Corridor						
	Corridor Segment	G&I Core Place	G&I Area			
Census Data	Northport CBD	Village of Northport	Northport			
Total Population (2010)	499	526	2,027			
People per Acre	2.33	0.50	0.06			
People per Square Mile	1,493	319	41			
Total Housing (2010)	387	405	1,940			
Gross Neighborhood Density (per acre)	1.81	0.38	0.06			
Study Area Size (Land Cover)						
Acres	213.91	1,056.00	31,456.00			
Square Miles	0.33	1.65	49.15			
Workers Living within Study Area	138	144	747			
% with earnings \$1250/month or less	25%	25%	29%			
% with earnings \$1251/month to \$3333/month	44%	43%	40%			
% with earnings greater than \$3333/month	31%	32%	31%			
Jobs Located within Study Area	95	311	384			
Job Density (per acre)	0.44	0.29	0.01			

Zoning						
			% of Districts That	Max Resident	ial Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
CN-1   R-2   CR-1   C-1	75%	0%	25%	2.9	46.0	35 ft



Flacelliakiliy Elelliellis			
Theaters/Entertainment Venues	No	Grocery Stores	Yes
		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
Post Office, Morgan-Copp-Mervau Building, The Depot,		Public Art Installations	No
Willowbrook Mill		Wayfinding	Yes
		Pedestrian Connections	Yes

Mill Street from N Village Limits to 8th Street Corridor Street Name(s):

**Corridor Classification:** Commercial/Industrial Unit(s) of Government: Village of Northport

0.51 miles Length: Major Collector **Street Classification:** 

2013 Traffic Volume(AADT):

**Number of Traffic Lanes:** 2, Bi-Directional Traffic

No Street Parking **Parking** BATA - Dial-A-Ride **Transit Service:** 

Bike Lane: No **Entertainment Venues:** No **Pedestrian Amenities:** None **Walk Score** 22



#### **Corridor Overview**

This Corridor is intended to meet the needs of a variety of uses that can be made compatible with surrounding residential uses via performance standards. This district is intended to maintain a high quality residential environment while allowing for the development of compatible, commercial and light industrial uses. The purpose of this district is to encourage and promote a wide array of activities in order to enhance Northport's economic vitality while maintaining the housing stock and quality living environment of the community.



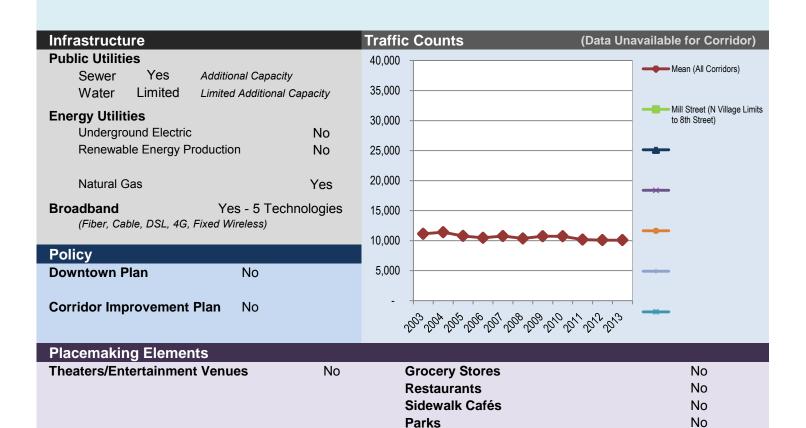
#### **Economic Development**

Community policies or activities assisting economic development (Village of Northport)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	No	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 36 Northport D1 Commercial/Industrial 5					
Study Area Summary for 1/4 Mile Area Surrounding	g the Corridor				
	Corridor Segment	G&I Core Place	G&I Area		
Census Data	Northport D1 Commercial/Industrial	Village of Northport	Northport		
Total Population (2010)	179	526	2,027		
People per Acre	0.62	0.50	0.06		
People per Square Mile	399	319	41		
Total Housing (2010)	125	405	1,940		
Gross Neighborhood Density (per acre)	0.43	0.38	0.06		
Study Area Size (Land Cover)					
Acres	287.40	1,056.00	31,456.00		
Square Miles	0.45	1.65	49.15		
Workers Living within Study Area	59	144	747		
% with earnings \$1250/month or less	20%	25%	29%		
% with earnings \$1251/month to \$3333/month	47%	43%	40%		
% with earnings greater than \$3333/month	32%	32%	31%		
Jobs Located within Study Area	49	311	384		
Job Density (per acre)	0.17	0.29	0.01		

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-2   D-1	100%	0%	0%	4.4	4.4	35 ft



**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

No

No

No

No

No

**Iconic Buildings** 

Corridor Street Name(s): North Shore Drive from Flees Road to Marina

Corridor Classification: Commercial

Unit(s) of Government: Village of Northport

Length:0.29 milesStreet Classification:Local2013 Traffic Volume(AADT):NA

Number of Traffic Lanes: 2, Bi-Directional Traffic

Parking No Street Parking

Transit Service: BATA - Dial-A-Ride

Bike Lane: No
Entertainment Venues: No
Pedestrian Amenities: None
Walk Score 14

**Identify Areas of Focus for G&I** 

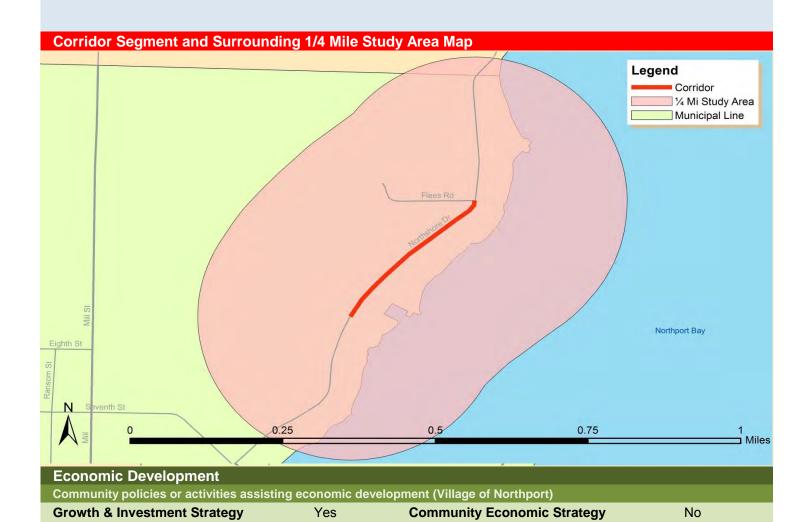
**Development Opportunities** 

**Publish Development Guide** 



#### **Corridor Overview**

The Northport Waterfront Commercial Corridor consists of the small area north of the downtown along the lakeshore. This area is intended for homes and small-scale resort-oriented commercial uses not requiring additional public services. This land use classification allows for expansion of existing commercial activities, but it is intended to complement downtown.



**Community Marketing Strategy** 

**Capital Improvement Plan** 

**Market Potential Development Sites** 

No

No

Yes

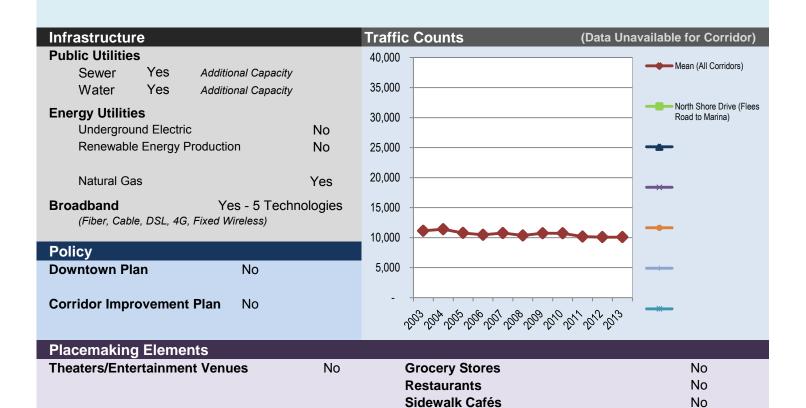
No

Yes

No

page 38 Northport V	<b>58</b> cc		
Study Area Summary for 1/4 Mile Area Surrou	ınding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Northport Waterfront Commercial	Village of Northport	Northport
Total Population (2010)	103	526	2,027
People per Acre	0.72	0.50	0.06
People per Square Mile	463	319	41
Total Housing (2010)	117	405	1,940
Gross Neighborhood Density (per acre)	0.82	0.38	0.06
Study Area Size (Land Cover)			
Acres	142.42	1,056.00	31,456.00
Square Miles	0.22	1.65	49.15
Workers Living within Study Area	27	144	747
% with earnings \$1250/month or less	19%	25%	29%
% with earnings \$1251/month to \$3333/month	37%	43%	40%
% with earnings greater than \$3333/month	44%	32%	31%
Jobs Located within Study Area	37	311	384
Job Density (per acre)	0.26	0.29	0.01

Zoning						
			% of Districts That	Max Residenti	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
R-2   C-2	100%	0%	0%	4.4	46.0	35 ft



**Parks** 

**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

No

**Iconic Buildings** 

No

No

No

No

No

# **Growth & Investment Area Unit(s) of Government:**

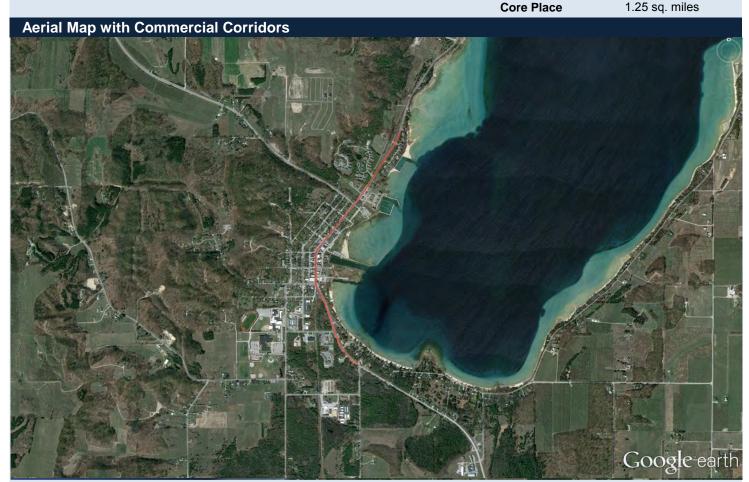
Village of Suttons Bay, Suttons Bay Township

#### **Core Place Census Areas:**

Village of Suttons Bay

County Census Class Land Area

Leelanau Rural G&I Area 24.52 sq. miles



## 3 Commercial Corridors Identified

Highest Corridor Traffic Count (Annual Average Daily Traffic)

Population Density Range of G&I Area Corridors (per acre)

Gross Neighborhood Density Range of G&I Area Corridors (per acre)

Job Density Range of G&I Area Corridors (per acre)

Worker Density Range of G&I Area Corridors (per acre)

1.3 - 1.7

Density calculations a derived from the area within a 1/4 mile of Corridor (Corridor Study Area)

0.3 - 1.3

Worker Density Range of G&I Area Corridors (per acre)

0.6 - 0.7

Retail

**Total Sales** \$25,788,482 **Classification:** Retail Potential Exporter

Potential Sales \$37,482,469

**Leakage** \$11,693,987 **Seasonal Housing:** 18.1% of G&I Area Housing

**Sprawl** 

Percentage of Housing in the Core Place is Growing by 1.9%

**Population** 

2000-2010: Declining at 0.0% with the Core Place Growing at 4.9%

Average Age: 44.0 [+16.4% change from 2000 Census]

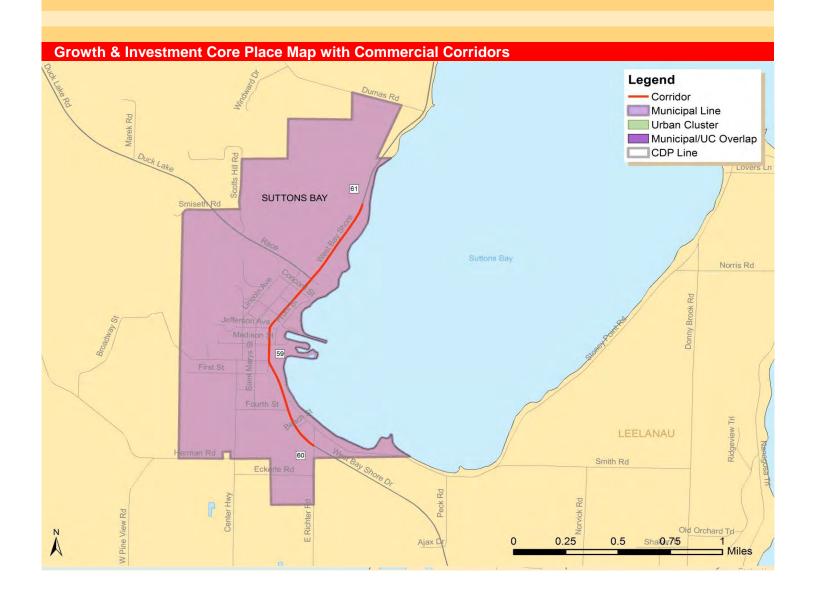
Demographic Shifts: Baby Boomers had the largest % gain (up 6.4%); Millennial Generation had the largest % loss (down -31.3%)

Jobshed

Worker Importer – Number of Jobs exceeds Resident Worker population by 137%

G&I	24	Suttons Bay	page 41
	wth 8	k Investment Readiness Assessment	Criteria Status
teria	1	Municipal Water	Yes
n Cri	2	Municipal Sewer	Yes
ectio	3	Government Staff	Yes
Initial Selection Criteria	4	Master Plan Includes Higher Density Center	Yes
Initi	5	Zoning Ordinance Supporting Master Plan Density Center	Yes
	6	Core Place Population Increasing	Yes
Ø	7	Housing Growth Rate Over 15% (2000-2010 Census)	No
s Dat	8	Core Place Housing Growth Increasing Faster than Surrounding Area	Yes
Census Data	9	Census Class (Rural, Urban Cluster, Urbanized Area, MSA)	Rural
O	10	Job Density Over 75 Jobs Per Acre in Commercial Corridors	No
	11	50% of Workers Living within 5 miles	No
	12	Zoned Densities Greater Than 30 Dwellings/Acre in Commercial Corridors	Yes
. <del>.</del>	13	Zoning Allows Mixed-Use by Right in Commercial Corridors	Yes
Polic	14	Zoning Allows Multi-Family Residential by Right in Commercial Corridors	Yes
Zoning Policy	15	Building Height Limits Greater than 35 feet in Commercial Corridors	Yes
Zo	16	No On Site Parking Requirement in Central Business District	Qualified Yes
	17	Density Bonuses Offered for Contributions Towards Public Policy Goals	No
	18	4 Key Placemaking Elements in Corridors	No
ing	19	Retail Hub	No
Placemaking	20	Educational Institutions (Trade Schools, Community Colleges, Universities)	No
Plac	21	Contain Medical Centers	No
	23	Walkable Density CBD or Commercial Corridors (20-30 Dwellings per Acre)	No
	24	Community Identified Development Opportunities	Yes
Opportunity	25	Marketing Redevelopment & Infill Sites	No
ppor	22	Fixed Route Transit (Headways 15 mins or less)	No
0	30	Commercial Corridors with High Traffic Count AADT (Over 10k, Over 25k)	No
Φ	26	Additional Water Capacity	Yes
Infrastructure	27	Additional Sewer Capacity	Yes
rastr	28	Broadband Service over 1 Gbps Available	No
In	29	Municipal WiFi	No

pag	ge 42 Suttons Bay			24 G&I		
Cor	Commercial Corridors					
ID	Name	Corridor Length (feet)	Population Density (People per acre)	Housing Density (Dwellings per acre)	Job Density (Jobs per acre)	Worker Density (Workers per acre)
59	Suttons Bay CBD	2,584	2.4	1.7	1.2	0.7
60	Suttons Bay South Gateway Commercial	2,627	2.3	1.3	1.3	0.7
61	Suttons Bay North Gateway Commercial	2,440	1.9	1.7	0.3	0.6



		(======================================
Median Household Inco	me (2012 Dollars)	Household Income Distribution
Core Place Village of Suttons Bay  G&I Area Village of Suttons Bay Suttons Bay Township	\$53,333 \$53,333 \$43,023 \$53,333 \$43,023	10%  5%  Concept and the conce
Per Capita Annual Inco	me (2012 Dollars)	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
Core Place	\$36,784	Core Place —— G&I Area
G&I Area	\$25,632	All Core Places · · · · All G&I Areas

page 44	<u>Sutte</u>	ons Bay				24	G8
Policy							
		Core Plac	ce Units of	Governm	ent Interview	red .	
Data Source: Commercial Corridor In	ventory Interview	Village of Suttons Bay					
ear of Master Plan Approval		2011					
Master Plan Update		NA					
Community Economic Strateg	ıy	No					
Economic Strategy Coordinates v	vith Regional Strategy	NA					
Growth & Investment Strategy		Yes					
Identify Areas of Focus for Growt		Yes					
Active G&I Strategy Developmen	t Discussions	NA					
Planning Zoning Benchmarks		Yes					
Development Opportunities o		Yes					
Redevelopment Priorities Identifie		Yes					
Redevelopment Resources Identi		Yes					
Market Potential Development Si	res	No					
Guides and Resources							
Publish Development Guide		No					
Zoning Orientation Package Prov	ided to Staff & Committees	Yes					
Zoning Training Funding		Yes					
Community Marketing Strateg	у	No					
Area Plans							
Downtown Plan Downtown Development	Authority	No					
Camiela y Inanyana ya maa ut Dian		Yes					
Corridor Improvement Plan Corridor Improvement At	ıthority						
Corridor Improvement Au	ıthority						
	Districts in Identified Comme	rcial Dens Distr	sity for Con	f Districts in ridors where xed Use is ved by Right	% of Districts in Corridors where Multi-Family Use is allowed by Right	Max Bui Height Al in Corri	llowe

Commercial Corridor Placemaking Elements						
		Placemaki	ing Elements	Supporting V	Valkability	
ID	Name	Theaters & Entertainment Venues	Grocery Stores	Parks & Pocket Parks	Pedestrian Connections	Job / Population Ratio
59	Suttons Bay CBD	Yes	No	Yes	Yes	0.508
60	Suttons Bay South Gateway Commercial	No	Yes	Yes	Yes	0.574
61	Suttons Bay North Gateway Commercial	No	No	Yes	Yes	0.176

page 46	Suttor	ns Bay		24 G&
Talent Jobshed	-			
		Core Place	G&I Area	
Census Data		Village of Suttons Bay	Village of Suttons Bay, Suttons Bay Township	
Workers Living within Study Area		174	867	
Worker Density (per acre)		0.22	0.06	
Worker's Earnings				
% with earnings \$1250/month or les	S	23%	29%	
% with earnings \$1251/month to \$33		47%	43%	
% with earnings greater than \$3333/	month	30%	28%	
		007	0.054	
Jobs Located in Area		287	2,051	
Job Density (per acre)		0.36	0.13	
Commute Data for Workers Emplo	yed in Core Plac	:e		
Commuting data for workers residing from 2				
Commuting Workers		261	18% Commuting 5 Mi	les or Less
<b>Total Daily One Way Commute for</b>	all Commuters			
Route Distance (Miles)		7,730		
Commute Time (Minutes)		9,793		
Total Annual Commute for all Com	muters			
Distance (Miles)	matoro	4,058,312		
Time (Hours)		85,685		
Annual Commuting Costs				
Total Fuel Cost		617,569		
Total Cost (IRS 2014 Standard Milea	age Rate)	\$2,272,655		
Average Per Worker Commute		Daily (2-Way)	Annual	
Distance (Miles)		59	15,549	
Time (Hours)		1.3	328	
Cost (IRS Standard Mileage Rate)		\$33	\$8,707	
Retail Activity				
	ore Place Activity	G&I Area A	Activity County	y Activity
Total Retail Sales	\$19,363,686			,952,644
Total Potential Retail Sales	\$8,741,982	·		,293,904
Leakage	(\$10,621,704)	·		),341,260
Leanaye	(Ψ10,021,704)	φ11,03	<b>93,301</b> φ148	7,041,200
Classification: Retail Potential Ex	nortor			
T TORRETTICATION: POTALL POTABLIST EV	NNTOF			

Residents of the Suttons Bay Growth & Investment Area are making 31% of their purchases at businesses located outside the area.

Sales by Retail Store Type	Core Place Sales	Potential G&I Area Sales	Core Place Sales / Potential G&I Sales
Food & Beverage Stores	\$4,521,502	\$4,745,993	95%
Health/Personal Care Stores	\$1,038,110	\$3,220,603	32%
Clothing & Accessories Stores	\$3,049,160	\$1,575,999	193%
Sport/Hobby/Book/Music Stores	\$1,144,876	\$864,015	133%
General Merchandise Stores	\$0	\$7,804,024	0%
Food & Beverage Establishments	\$3,481,890	\$3,096,403	112%
E-Shopping/Mail-Order	\$0	\$1,929,792	0%

Corridor Street Name(s): St Joseph Street (M22) from M204 to W Broadway

Corridor Classification: Central Business District
Unit(s) of Government: Village of Suttons Bay

Length: 0.49 miles
Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 6,302 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking Parallel

Transit Service: BATA - Fixed Route

Bike Lane: Yes
Entertainment Venues: Yes

Pedestrian Amenities: Sidewalks, Crosswalks

Walk Score 68



#### **Corridor Overview**

The Leelanau Scenic Heritage Route which includes the M-22 section through the Suttons Bay CBD is a major roadway in Leelanau County and is also a main route for commerce. There is a year round influx of visitors with the highest number occurring in the summer months. There is also major agricultural traffic during harvest seasons with farm equipment and the transport of products by large trucks. The Village of Suttons Bay enacted a form based code for the area allowing for a mix of commercial and residential uses in structures up to 3 floors. Street level floors are limited to retail, office and other service uses. Upper floors may be used for a mixture of retail, office, service and residential uses.

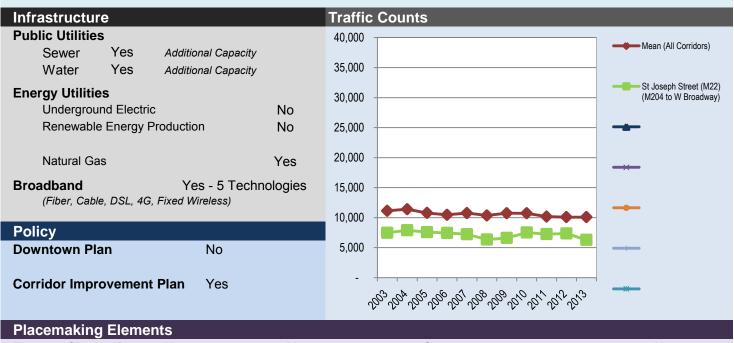


Community policies or activities assisting economic development (Village of Suttons Bay)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 48	page 48 Suttons Bay CBD					
Study Area Summary for 1/4 Mile Area Su	rrounding the Corridor					
	Corridor Segment	G&I Core Place	G&I Area			
Census Data	Suttons Bay CBD	Village of Suttons Bay	Suttons Bay			
Total Population (2010)	563	618	2,982			
People per Acre	2.36	0.77	0.19			
People per Square Mile	1,512	494	122			
Total Housing (2010)	414	453	1,589			
Gross Neighborhood Density (per acre)	1.74	0.57	0.10			
Study Area Size (Land Cover)						
Acres	238.28	800.00	15,692.80			
Square Miles	0.37	1.25	24.52			
Workers Living within Study Area	156	174	867			
% with earnings \$1250/month or less	23%	23%	29%			
% with earnings \$1251/month to \$3333/month	47%	47%	43%			
% with earnings greater than \$3333/month	30%	30%	28%			
Jobs Located within Study Area	286	287	2,051			
Job Density (per acre)	1.20	0.36	0.13			

Zoning						
			% of Districts That	Max Resident	al Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
PLA   NGA   CBA	67%	67%	67%	58.1	62.2	35 ft



Theaters/Entertainment Venues	Yes	Grocery Stores	No
Bay Theatre		Restaurants	Yes
		Sidewalk Cafés	No
		Parks	Yes
Iconic Buildings	Yes	Pocket Parks	Yes
Bay Theatre, Phone Booths, Firehouse		Public Art Installations	No
		Wayfinding	No
		Pedestrian Connections	Yes

S. West Bay Shore Drive (M22) from W Broadway to S. Richter Road Corridor Street Name(s):

Commercial **Corridor Classification:** 

Unit(s) of Government: Village of Suttons Bay

0.50 miles Length: Minor Arterial **Street Classification:** 

2013 Traffic Volume(AADT): 6,302 Source: MDOT **Number of Traffic Lanes:** 2, Bi-Directional Traffic

**Parking** No Street Parking BATA - Fixed Route **Transit Service:** 

Bike Lane: No **Entertainment Venues:** No **Pedestrian Amenities:** Sidewalks **Walk Score** 66



#### **Corridor Overview**

The Leelanau Scenic Heritage Route which includes the M-22 section through the Suttons Bay South Gateway Commercial is a major roadway in Leelanau County and is also a main route for commerce. There is a year round influx of visitors with the highest number occurring in the summer months. There is also major agricultural traffic during harvest seasons with farm equipment and the transport of products by large trucks. The Village of Suttons Bay enacted a form based code for the area allowing for a mix of commercial and residential uses. Medium to large single-family residential appearing buildings accommodating single and multi-family residential, retail, professional and other service business are allowed.



#### **Economic Development**

Community policies or activities assisting economic development (Village of Suttons Bay)

Growth & Investment Strategy	Yes	Community Economic Strategy	No
Identify Areas of Focus for G&I	Yes	Community Marketing Strategy	No
Development Opportunities	Yes	Market Potential Development Sites	No
Publish Development Guide	No	Capital Improvement Plan	Yes

page 50 Suttons Bay Sou	ial	<b>60</b> cc	
Study Area Summary for 1/4 Mile Area Surroun	ding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Suttons Bay South Gateway Commercial	Village of Suttons Bay	Suttons Bay
Total Population (2010)	549	618	2,982
People per Acre	2.29	0.77	0.19
People per Square Mile	1,464	494	122
Total Housing (2010)	302	453	1,589
Gross Neighborhood Density (per acre)	1.26	0.57	0.10
Study Area Size (Land Cover)			
Acres	240.07	800.00	15,692.80
Square Miles	0.38	1.25	24.52
Workers Living within Study Area	157	174	867
% with earnings \$1250/month or less	21%	23%	29%
% with earnings \$1251/month to \$3333/month	46%	47%	43%
% with earnings greater than \$3333/month	33%	30%	28%
Jobs Located within Study Area	315	287	2,051
Job Density (per acre)	1.31	0.36	0.13

Zoning						
			% of Districts That	Max Resident	ial Site Density	Max Building
District(s)	Allow Residential Use	Allow Multi-Family by Right	Allow Mixed Use By Right	Lowest Density District	Highest Density District	Height
PLA   SFWFA   NVA   SGA   CBA   SBA	67%	33%	33%	4.4	62.2	40 ft



**Parks** 

**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

No

**Iconic Buildings** 

Yes

No

No

No

Yes

Corridor Street Name(s): West Bay Shore Drive (M22) from N St Joseph to M204

Corridor Classification: Commercial

Unit(s) of Government: Village of Suttons Bay

Length: 0.46 miles

Street Classification: Minor Arterial

2013 Traffic Volume(AADT): 4,126 Source: MDOT

Number of Traffic Lanes: 2, Bi-Directional Traffic with Turn/Passing Lanes

Parking No Street Parking

Transit Service: BATA - Fixed Route

Bike Lane: Yes

Entertainment Venues: No

Pedestrian Amenities: Sidewalks

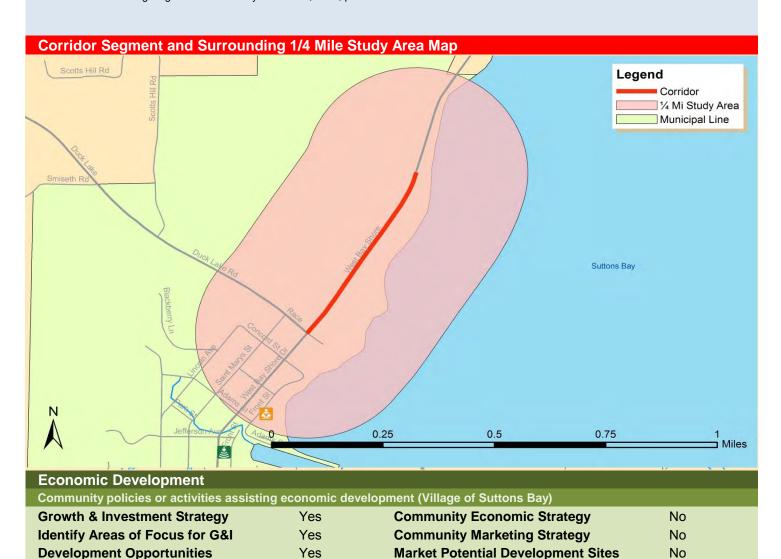
Walk Score 48

**Publish Development Guide** 



#### **Corridor Overview**

The Leelanau Scenic Heritage Route which includes the M-22 section through the Suttons Bay North Gateway Commercial is a major roadway in Leelanau County and is also a main route for commerce. There is a year round influx of visitors with the highest number occurring in the summer months. There is also major agricultural traffic during harvest seasons with farm equipment and the transport of products by large trucks. The Village of Suttons Bay enacted a form based code for the area allowing for a mix of commercial and residential uses. Small to medium structures up to 1 1/2 stories accommodating single and multi-family residential, retail, professional and other service business are allowed.



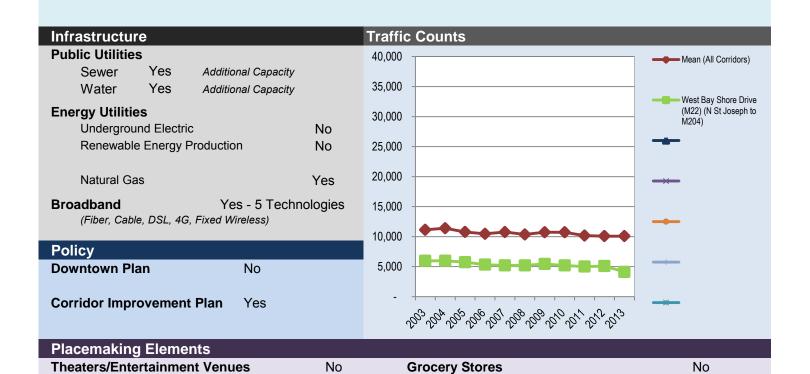
**Capital Improvement Plan** 

Yes

No

page 52 Suttons Bay Nor	ial	<b>61</b> cc	
Study Area Summary for 1/4 Mile Area Surroun	ding the Corridor		
	Corridor Segment	G&I Core Place	G&I Area
Census Data	Suttons Bay North Gateway Commercial	Village of Suttons Bay	Suttons Bay
Total Population (2010)	369	618	2,982
People per Acre	1.89	0.77	0.19
People per Square Mile	1,210	494	122
Total Housing (2010)	325	453	1,589
Gross Neighborhood Density (per acre)	1.67	0.57	0.10
Study Area Size (Land Cover)			
Acres	195.12	800.00	15,692.80
Square Miles	0.30	1.25	24.52
Workers Living within Study Area	117	174	867
% with earnings \$1250/month or less	25%	23%	29%
% with earnings \$1251/month to \$3333/month	45%	47%	43%
% with earnings greater than \$3333/month	30%	30%	28%
Jobs Located within Study Area	65	287	2,051
Job Density (per acre)	0.33	0.36	0.13

Zoning							
District(s)		% of Districts That Allow Multi-Family by Right		The state of the s		Max Building	
	Allow Residential Use			Lowest Density District	Highest Density District	Height	
BVA   SPA-PUD   NVA-PUD   NGA	100%	100%	75%	0.0	58.1	35 ft	



Restaurants

**Parks** 

No

**Iconic Buildings** 

Sidewalk Cafés

**Pocket Parks** 

Wayfinding

**Public Art Installations** 

**Pedestrian Connections** 

No

No

Yes

No

No

No

Yes

# **Growth & Investment Area Study**

# **Census Class Definitions**

#### 2010 Census Urban and Rural Classification and Urban Area Criteria

The Census Bureau's urban-rural classification is fundamentally a delineation of geographical areas, identifying both individual urban areas and the rural areas of the nation. The Census Bureau's urban areas represent densely developed territory, and encompass residential, commercial, and other non-residential urban land uses.

For the 2010 Census, an urban area will comprise a densely settled core of census tracts and/or census blocks that meet minimum population density requirements, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. To qualify as an urban area, the territory identified according to criteria must encompass at least 2,500 people, at least 1,500 of which reside outside institutional group quarters. The Census Bureau identifies two types of urban areas:

Urbanized Areas (UAs) of 50,000 or more people;

Urban Clusters (UCs) of at least 2,500 and less than 50,000 people.

"Rural" encompasses all population, housing, and territory not included within an urban area.

Source: https://www.census.gov/geo/reference/ua/urban-rural-2010.html

## About Metropolitan and Micropolitan Statistical Areas

The United States Office of Management and Budget (OMB) delineates metropolitan and micropolitan statistical areas according to published standards that are applied to Census Bureau data. The general concept of a metropolitan or micropolitan statistical area is that of a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core. Currently delineated metropolitan and micropolitan statistical areas are based on application of 2010 standards [PDF] (which appeared in the Federal Register on June 2010) to 2010 Census and 2006-2010 American Community Survey data. Current metropolitan and micropolitan statistical area delineations were announced by OMB effective February 2013.

Standard delineations of metropolitan areas were first issued in 1949 by the then Bureau of the Budget (predecessor of OMB), under the designation "standard metropolitan area" (SMA). The term was changed to "standard metropolitan statistical area" (SMSA) in 1959, and to "metropolitan statistical area" (MSA) in 1983. The term "metropolitan area" (MA) was adopted in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs), and primary metropolitan statistical areas (PMSAs). The term "core based statistical area" (CBSA) became effective in 2000 and refers collectively to metropolitan and micropolitan statistical areas.

OMB has been responsible for the official metropolitan areas since they were first delineated, except for the period 1977 to 1981, when they were the responsibility of the Office of Federal Statistical Policy and Standards, Department of Commerce. The standards for delineating metropolitan areas were modified in 1958, 1971, 1975, 1980, 1990, 2000, and 2010.

#### Delineating Metropolitan and Micropolitan Statistical Areas

The 2010 standards provide that each CBSA must contain at least one urban area of 10,000 or more population. Each metropolitan statistical area must have at least one urbanized area of 50,000 or more inhabitants. Each micropolitan statistical area must have at least one urban cluster of at least 10,000 but less than 50,000 population.

Under the standards, the county (or counties) in which at least 50 percent of the population resides within urban areas of 10,000 or more population, or that contain at least 5,000 people residing within a single urban area of 10,000 or more population, is identified as a "central county" (counties). Additional "outlying counties" are included in the CBSA if they meet specified requirements of commuting to or from the central counties. Counties or equiva-

lent entities form the geographic "building blocks" for metropolitan and micropolitan statistical areas throughout the United States and Puerto Rico.

If specified criteria are met, a metropolitan statistical area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as "metropolitan divisions."

As of February 2013, there are 381 metropolitan statistical areas and 536 micropolitan statistical areas in the United States. In addition, there are 7 metropolitan statistical areas and 5 micropolitan statistical areas in Puerto Rico.

Source: http://www.census.gov/population/metro/about/

# **Land Area**

#### Data Source

2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions and Census Places.

## **Traffic Count Data**

#### AADT Data sources

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

For the purpose of this report, if the identified commercial corridor has more than one AADT count, the largest count was utilized.

# **Corridor Study Areas**

# **Population Density**

Population Density information contain in this report is based on the 2010 US Census and is calculated by taking the total number of individual as reported for the geographic area reported and dividing it by the number of miles or acres of land area.

#### Max Dwelling Density for Districts in Corridors

Max Dwelling Density for Districts in Corridors is based on parcel or site density. Used by builders/developers and controlled by the zoning ordinance within jurisdictions that have zoning, site density is determined by the total dwelling/housing units divided by the total parcel size. For determining Max Dwelling Density, the zoning ordinance was reviewed for current permitted maximum site density. In cases were no specific maximum dwelling limits is explicitly stated, a review of the ordinance was undertaken and a theoretical maximum was calculated taking into account maximum coverages, parking requirements, buffer areas, building height and story limits, and any other code restricting dwelling permitting. The actual permissible density would be based on the specific site constraints and determined by completion of a land use permit process conducted under the respected zoning authority. The calculated theoretical maximums contained in this report should in no way be relied upon for the determination of actual permissible site dwelling density.

#### Gross Neighborhood Density

Gross neighborhood Density is the total dwelling/housing unit count over the total land area being considered. Parcel or site density will in most cases be greater than gross neighborhood density because it does not include land uses such as streets, parks, and other public land uses that dilute gross neighborhood density. While parcel or site density is important for zoning, gross neighborhood density is important for determining public services, transportation infrastructure, transit, and economic activity potential.

## Job & Worker Density

Job Density is based on 2012 data contained in the LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Job count data by location is provided at the Census Block level by LODES, which is then used by culling the data based on which Census Blocks are contained by the geographical extent of the specific data being presented.

Worker Density is based on 2012 data contained in the LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Worker count data (those individuals currently employed and residing in the area of study) is provided at the Census Block level by LODES, which is then used by culling the data based on which Census Blocks are contained by the geographical extent of the specific data being presented.

#### **Retail Sales**

#### Data Source

Retail data was sourced from Environmental Systems Research Institute, Inc. (Esri) by the purchase of a Complete State Retail MarketPlace Data License for the State of Michigan by all levels of geography.

## Whitepaper Statement from Esri

Esri has combined the latest Consumer Expenditure Surveys (CEX), 2006–2007, from the Bureau of Labor Statistics (BLS) to estimate current spending patterns. The continuing surveys include a Diary Survey for daily purchases and an Interview Survey for general purchases. The Diary Survey represents record keeping by consumer units for two consecutive weeklong periods. This component of the CEX collects data on small, daily purchases that could be overlooked by the quarterly Interview Survey. The Interview Survey collects expenditure data from consumers in five interviews conducted every three months. Esri integrates data from both surveys to provide a comprehensive database on all consumer expenditures. To compensate for the relatively small CEX survey bases and the variability of single-year data, expenditures are averaged from the 2006–2007 surveys.

Esri computes Market Potential by combining 2011 Tapestry™ Segmentation data with Doublebase® 2009 data from GfK MRI. Doublebase 2009 is an integration of information from four consumer surveys. Each survey respondent can be identified by Tapestry segment, so a rate of consumption by Tapestry segment can be determined for a product or service for any area.

The Expected Number of Consumers (households or adults) for a product or service in an area is computed by applying the consumption rate for Tapestry market segment "n" to households or adults in the area belonging to Tapestry segment "n," and summing across 65 Tapestry segments.

Expected Number of Consumers = 
$$\sum_{n=1}^{65} (Count_n \times Consumption \ Rate_n)$$

The *Local Consumption Rate* for a product or service for an area is computed as the ratio of the expected number of consumers for a product or service in the area to the total households or adults in the area.

$$Local \ Consumption \ Rate = \frac{Expected \ Number \ of \ Consumers}{Base \ Count}$$

The *Market Potential Index* for a product or service for an area is the ratio of the local consumption rate for a product or service for the area to the US consumption rate for the product or service, multiplied by 100.

$$\textit{Market Potential Index } = \frac{\textit{Local Consumption Rate}}{\textit{US Consumption Rate}} \times 100$$

Esri's Market Potential database includes data for more than 2,200 items, organized into 35 categories, representing goods, services, attitudes, and activities collected from GfK MRI surveys. Unless otherwise noted, each item refers to consumer spending or behavior in a 12-month period. The a or h following the five-digit product code denotes a consumer base of adults or households, respectively.

Products and services, such as apparel items, types of digital cameras, video game systems, financial accounts and services, health-related items, Internet activities, satellite TV providers, personal care services, and detailed information about cell phones/PDAs (brands, service providers, average monthly bills, and purchase locations), are included. A product description was revised since the last Market Potential update if a product change was made by GfK MRI, if ranges had to be collapsed, or if more clarification was required. A product was dropped since the last Market Potential update if it did not pass a sample size test, became outdated or unnecessary, or no longer exists in the GfK MRI database.

#### Retail Classification:

Leakage is defined as the Potential Sales less the Total Sales. All inputs are as reported by Esri.

For the purposes of determining the *Retail Classification*, Sales, Potential Sales, and Leakage are taken from the Growth & Investment Area. A Retail Hub is defined in this study as having a negative retail leakage. If the Retail Sales for the Growth & Investment Area are greater than Potential Sales in the county in which it is located and the county's leakage is negative, then the Retail Hub is classified as a Regional Hub. In the absence of these two conditions, then the Retail Hub is classified as a Local Hub.

# Seasonal Housing:

The Seasonal Housing percentage is determined by the dividing the Data Dictionary Reference Name H0050006 "For seasonal, recreational, or occasional use" of the H5 Table "Vacancy Status, Universe: Vacant housing units Total:" of the 2010 Census Summary File 1 by the total number of Housing Units.

The U.S. Census Bureau's 2010 Census Summary File 1. Summary File 1 tables provide the most detailed counts available so far from the 2010 Census, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. The statistics are available for a variety of geographic areas, with most tables available down to the block or census tract level.

Summary File 1 (SF 1) contains the data compiled from the questions asked of all people and about every housing unit. Population items include sex, age, race, Hispanic or Latino origin, household relationship, household type, household size, family type, family size, and group quarters. Housing items include occupancy status, vacancy status, and tenure (whether a housing unit is owner-occupied or renter-occupied).

There are 177 population tables (identified with a "P") and 58 housing tables (identified with an "H") shown down to the block level; 82 population tables (identified with a "PCT") and 4 housing tables (identified with an "HCT") shown down to the census tract level; and 10 population tables (identified with a "PCO") shown down to the county level, for a total of 331 tables. The SF 1 Urban/Rural Update added 2 PCT tables, increasing the total number to 333 tables. There are 14 population tables and 4 housing tables shown down to the block level and 5 population tables shown down to the census tract level that are repeated by the major race and Hispanic or Latino groups.

SF 1 includes population and housing characteristics for the total population, population totals for an extensive list of race (American Indian and Alaska Native tribes, Asian, and Native Hawaiian and Other Pacific Islander) and Hispanic or Latino groups, and population and housing characteristics for a limited list of race and Hispanic or Latino groups. Population and housing items may be cross-tabulated. Selected aggregates and medians also are provided. A complete listing of subjects in this file is found in the "Subject Locator" chapter of the 2010 Census Summary File 1 Technical Documentation

Summary File 1 (SF 1) is released as individual files for each of the 50 states, the District of Columbia, and Puerto Rico, and for the United States. The tables (matrices) are identical for all files, but the geographic coverage differs. SF 1 for states was released from June–August 2011.

# **Sprawl**

The Sprawl Assessment is based the ratio of Core Place Housing Units to the total Growth & Investment Area Housing Units as reported by the 2010 Census minus the ratio of Core Place Housing Units to the total Growth & Investment Area Housing Units as reported by the 2000 Census.

 $\frac{2010\ \textit{Core Place Housing Units}}{2010\ \textit{Growth \& Invesment Housing Units}} - \frac{2000\ \textit{Core Place Housing Units}}{2000\ \textit{Growth \& Invesment Housing Units}}$ 

Other methods of quantifying sprawl such as using satellite spectral data to indicate changes in impervious surface over time, maybe investigated for future study. However, were beyond the scope of this project.

# **Population**

#### 2000-2010:

The P1 "TOTAL POPULATION" table of the 2000 and 2010 Census's Summary File 1 provided the data to calculate the Growth & Investment Area and Core Place population change.

# Average Age:

PCT12 "SEX BY AGE" table of the 2000 and 2010 Census's Summary File 1 provided the data to calculate the average age for the Growth & Investment Area and Core Place populations and the percentage change from 2000-2010.

# Demographic Shifts:

Demographic Shifts used the PCT12 "SEX BY AGE" table of the 2000 and 2010 Census's Summary File 1 to determine the population of the six current generational cohorts (living at the time of the 2010 census) for both 2000 and 2010 and then calculating the percentage change in each generational cohorts population. Generational cohorts' birth by year range can fluctuate depending on the source. Table 1 lists the generational cohort and the corresponding range for the year of birth used for this study. (Novak n.d.)

Table 1						
Generational Cohorts	Born Between					
GI Generation (Greatest)	1901	1926				
Silent Generation	1927	1945				
Baby Boomers	1946	1964				
Generation X	1965	1980				
Millennial Generation	1981	2000				
Generation Z	2001	Present				

The study targeted the Silent Generation, Baby Boomers, Generation X, and the Millennial Generation for changes in cohort population. The Generation Z was not alive at the time of the 2000 census and the percentage change could not be calculated and the GI Generation population was less the 3% for the total 2010 Northwest Michigan population and was not included in the targeted cohorts.

## **Talent Jobshed**

#### **Data Source**

All Jobshed information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Characteristics (WAC), all at census block geographic detail. Data is available for most states for the years 2002–2011.

Workers Living within Study Area, Worker's Earnings, and Jobs Located in Area and their resultant density calculations utilized data from the Michigan RAC and WAC databases. The Origin-Destination database file for Michigan was not available at the time the Commuting Data was analyzed, so the OnTheMap application was used to download data sets for each of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The available data from OnTheMap locates the worker's residence within a 2010 Census Block. The centroid, as established by the Census Tiger Files, was used to calculate the start location of the commute route distance and time. Without the individual employment locations within the Growth & Investment being contained in the OnTheMap datasets, the end location for the commute route distance and time was determined by using a point along a major commercial corridor of the Census Places and County Subdivisions that comprise the Growth

& Investment Areas. The data was filtered to utilize only workers living in Michigan as workers living out of the state would have low propensity for daily commutes. The start and end locations for filtered worker commutes was then processed by a Visual Basic for Applications routine that used the Google Distance Matrix API to calculate route distance and time for 35,524 pairs.

The Google Distance Matrix API is a service that provides travel distance and time for a matrix of origins and destinations. The information returned is based on the recommended route between start and end points, as calculated by the Google Maps API, and consists of rows containing duration and distance values for each pair.

LEHD Origin-Destination Employment Statistics (LODES)1 are the job data that are delivered in the OnTheMap application. This document describes the contents of the LODES Version 7 dataset in the context of the OnTheMap application.

U.S. Census Bureau. 2013. LODES Data. Longitudinal-Employer Household Dynamics Program. http://lehd.ces.census.gov/applications/help/onthemap.html

U.S. Census Bureau. 2013. OnTheMap Application. Longitudinal-Employer Household Dynamics Program. http://onthemap.ces.census.gov/

#### Overview

As with previous versions of data released in OnTheMap, LODES Version 7 is a partially synthetic dataset that describes geographic patterns of jobs by their employment locations and residential locations as well as the connections between the two locations. These data and marginal summaries are tabulated by several categorical variables. More detailed information on the variables and scope of the data follows.

# Job Definition

In the context of LODES and OnTheMap, a job is counted if a worker is employed with positive earnings during the reference quarter as well as in the quarter prior to the reference quarter. This is called a "beginning of quarter" job because the assumption is that the worker was employed on the first day of the reference quarter.

# Years

LODES Version 7 includes data for 2002-2011, for which Quarter 2 (April – June) is the reference period in each year. Not all states have data available for each year and not every variable is available in each year.

# Geographical Vintage

LODES Version 7 and OnTheMap use 2010 census blocks, defined for the 2010 Decennial Census, as their base geography. Data released in previous versions of LODES and OnTheMap used 2000 census blocks as the geographical base. For data previously released in 2000 census blocks, the LODES data has been "crosswalked" or "transformed" into the base of 2010 census blocks. Further information on how OnTheMap and LODES implement the 2010 census blocks can be found in OnTheMap: Updating the Base Geography

## **Data Structure**

The overall file structure of LODES Version 7 remains similar to that of previous versions. The origin-destination (OD) matrix is made available by 10 different "labor market segments." The area characteristic (AC) data – summary margins by residence block and workplace block – contain additional variables including age, earnings, and industry plus the newer variables outlined below.

In OnTheMap, the OD data are used to produce the Destination, Distance/Direction, Inflow/Outflow, and Paired Area analyses. The AC data are used to produce the Area Profile and Area Comparison analyses.

# **Population & Housing Trends**

#### **Data Source**

**Population and Housing Data:** The 2000 and 2010 Census Summary File 1 data tables provide the most detailed information available so far from the 2000 Census and 2010 Census about a community's entire population, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. For Census Designated Places (CDPs) that were first established in 2010, the 2010 Census Block Relationship files were utilized to process the 2000 Census Summary File 1 block data to calculate the 2000 data for these CDPs.

The 2010 Census Block Relationship files are provided as a tool to help data users compare the universe of Census 2000 blocks to the universe of 2010 Census blocks. From these files, data users may determine how 2000 blocks now relate to 2010 Census blocks and vice versa.

**Geographic Areas:** 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions and Census Places.

## Core Place and G&I Area Geographic Extents

The Core Place and G&I Area geographic extents were determined to provide the maximum continuity across differing datasets from governmental and private sources. In cases where CDPs were utilized, data years of predating the establishment of the CDP were unavailable causing gaps in total counts and percentage changes.

## **Gross Neighborhood Density**

Gross neighborhood Density is the total dwelling/housing unit count over the total land area being considered. Parcel or site density will in most cases be greater than gross neighborhood density because it does not include land uses such as streets, parks, and other public land uses that dilute gross neighborhood density. While parcel or site density is important for zoning, gross neighborhood density is important for determining public services, transportation infrastructure, transit, and economic activity potential.

#### Total Households

The Percentage of Households without Children (under 18) was calculated by adding "Nonfamily households:" Table P0180007 together with "2-or-more-person household: Family households: Husband-wife family: No own children under 18 years" Table P0190009 from the 2010 Census Summary File 1 and then dividing by the total number of households.

### **Commercial Corridors**

## **Corridor Length**

Corridor Lengths were determined by plotting the described commercial corridor from the Commercial Corridor Inventory Interviews with local units of government into the Google Earth desktop application, exporting the KML files for import to ArcMAP and projecting them to calculate the linear extent of the defined corridor in feet.

## **Population & Housing Density**

To calculate Population and Housing density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population and housing data for any Census Block either fully or partially contained within the buffer.

## Job & Worker Density

To calculate Job and Worker density, All Job and Worker information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. The 2011 (latest year available) Residence Area Characteristics (RAC) and Workplace Area Characteristics (WAC) data files were used at the Census Block level. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job and worker data for any Census Block either fully or partially contained within the buffer.

## **Growth & Investment Core Place Map with Commercial Corridors**

The map of commercial corridors were defined by entering public road center points (latitude and longitude coordinates) along the extent provided by the Commercial Corridor Inventory Interviews into Google Earth with the Add Path tool. A sufficient number of points were used to maintain road radius conformity. The full 10 county commercial corridors studies contained 1,722 individual latitude and longitude coordinates. The Google Earth paths were then exported into a KML file for import into ArcMap. The corridors where combined with data from the 2010 TIGER/Line® Shapefiles of Census Places and Counties and road geographic features data from the Michigan Department of Technology, Management, & Budget's Geographic Data Library Catalog.

# **Housing Data**

Housing data, other than counts provided by the 2010 Census, is sourced from the US Census Bureau's American Community Survey (ACS) 2008-2012 5 Year Detailed Tables.

The American Community Survey (ACS) is a part of the U.S. Census Bureau's Decennial Census Program and is designed to provide more current demographic, social, economic, and housing estimates throughout the decade. The ACS provides information on more than 40 topics, including education, language ability, the foreign-born, marital status, migration and many more. Each year the survey randomly samples around 3.5 million addresses and produces statistics that cover 1-year, 3-year, and 5-year periods for geographic areas in the United States and Puerto Rico. The 5-year estimates are available for many distinct geographies including the nation, all 50 states, DC, Puerto Rico, counties, places, census tracts, and block groups. ACS tables are published on the Census Bureau's American FactFinder (AFF) website, factfinder2.census.gov, and are available for download in several forms. (US Census Bureau 2014)

Since the Detailed Tables contain a large number of cells, the tables are stored in a series of files with only the data from the tables, without such information as the title of the tables, the description of the rows, and the names of the geographic areas. That information is in other files that the user must merge with the data files to reproduce the tables. This study created a data search tool to pull detailed table data from the assembly of the Michigan ASCII data files for each sequence number files containing the subject data (Sequences: 58, 62, 63, 64, 104, 105, 106, 107, 108).

The ACS estimates are based on data from a sample of housing units and people in the population, not the full population. For this reason, ACS estimates have a degree of uncertainty associated with them, called sampling error. This study does not list the sampling error for each data point due to the statistical complexity of combining margins of error in Growth & Investment Areas containing multiple municipalities.

## Housing Efficiency Rating (Average HERS)

The Home Energy Rating System (HERS) Index is the industry standard by which a home's energy efficiency is measured. It's also the nationally recognized system for inspecting and calculating a home's energy performance. It was developed by the Residential Energy Services Network (RESNET) an independent, non-profit organization to help homeowners reduce the cost of their utility bills by making their homes more energy efficient. To calculate a home's HERS Index Score, a certified RESNET HERS Rater does an energy rating on your home and compares the data against a 'reference home'— a designed-model home of the same size and shape as the actual home, so your score is always relative to the size, shape and type of house you live in.

To calculate the Average HERS score for homes in the specified geography the Total Built by Year was used together with an average HERS rating for the respective vintage of home construction to calculate an overall Average HERS score. (Hodgson 2008)

$$Average \; \textit{HERS} \; = \frac{\sum_{i=1}^{9} \textit{Number of Vintage Homes} \times \textit{Average HERS Rating by Vintage}}{\textit{Total Homes}}$$

## Percentage Built by Year & Average Year

Sequence file 104 of the ACS 2008-2012 5 Year Detailed Table was used to provide total counts of housing units by vintage year. The housing counts were then combined in cases of multiple municipalities or used separately to calculate the *Percentage Built by Year*.

### Median Value

Sequence file 106 of the ACS 2008-2012 5 Year Detailed Table was used to provide median value for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then a Median Value is given for these geographies.

## Home Heating Fuel

Sequence file 104 of the ACS 2008-2012 5 Year Detailed Table was used to provide total counts of housing units by fuel used in heating. The counts were then combined in cases of multiple municipalities or used separately to calculate the *Percentage of Homes Using Natural Gas, Percentage of Homes Using Propane, Percentage of Homes Using Wood, and Percentage of Homes Using Solar Energy.* 

## **Personal Income**

Personal Income data is sourced from the US Census Bureau's American Community Survey (ACS) 2008-2012 5 Year Detailed Tables.

## Median Household Income (2012 Dollars)

Sequence file 63 of the ACS 2008-2012 5 Year Detailed Table was used to provide *Median Household Income* value for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then a Median Value is given for these geographies.

## Per Capital Annual Income (2012 Dollars)

Sequence file 64 of the ACS 2008-2012 5 Year Detailed Table was used to provide Per Capita Annual Income and Aggregate Annual Income values for each of the municipalities comprising the Growth & Investment Area. Total Calculate the Core Place and G&I Area Per Capita Annual Incomes the Aggregate Annual Income was divided by the Per Capita Annual Income to derive the population number used in the Per Capita calculation. The Aggregate Annual Income for each unit of government was then summed together and divided by the sum of the Per Capita populations to provide the Per Capita Annual Income.

$$Per\ Capita\ Income = \frac{\sum_{i=1}^{n} Aggregate\ Annual\ Income_{i}}{\sum_{i=1}^{n} \frac{Aggregate\ Annual\ Income_{i}}{Per\ Capita\ Annual\ Income_{i}}}$$

i = the data for each unit of government contained in the geographic extent

n = to the total number of units of government in the geographic extent

#### Household Income Distribution Chart

Sequence file 58 of the ACS 2008-2012 5 Year Detailed Table was used to provide number of households falling in each of the distribution segments for each of the municipalities comprising the Growth & Investment Area. If the Core Place or G&I Area consists of a single municipality, then the municipal household distribution is used to determine the percentage falling in each income segment. If there are multiple municipalities, then the household income segment counts are summed for all municipalities then divided by the sum of all the households to determine the percentage distribution.

## **Policy**

All policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

## **Zoning**

Zoning data was sourced from the respective municipality's Zoning Ordinances and Maps. Commercial Corridor extents were used to pull which Districts were bisected or bordered by the corridor. The respective District standards were then used to determine maximum dwelling densities, permitted uses and review criteria, and district standards for heights, parking requirements, maximum lot coverages, and setbacks. In cases where explicit dwelling densities were not contained in the zoning ordinance, a theoretical maximum was calculated taking into ac-

count lot coverages, parking requirement, minimum unit counts and standard assumptions for building envelope ratios (specific formulas for each included district are available upon request). These maximums are theoretical and are not based on specific site constraints. As such they should not be relied upon for site planning or determinations of value. Contact the applicable Zoning Administrator for inquiries about any specific determinations. For a list of contacts please see the municipality's website or the Networks Northwest County Guides to Permitting and Zoning.

(http://www.nwm.org/planning/resources/publications/permitting-and-zoning-guides.html)

#### Infrastructure

## Municipal Water Service

All Municipal Water Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

### Municipal Sewer Service

All Municipal Sewer Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

#### **Broadband**

All data on Broadband available was sourced from Connect Michigan's technology service maps. Connect Michigan is a subsidiary of Connected Nation and operates as a non-profit in the state of Michigan. Connect Michigan partnered with the Michigan Public Service Commission to engage in a comprehensive broadband planning and technology initiative as part of National effort to map and expand broadband. The program began by gathering provider data to form a statewide broadband map and performing statewide business and residential technology assessments, but has since progressed to working with communities on community plans. (Connect Michigan 2014) Ultra fiber service over 1 Gbps (Gigabits per Second) was sourced from the National Broadband Map (<a href="http://www.broadbandmap.gov/technology">http://www.broadbandmap.gov/technology</a>) as updated on 12/31/2013. (National Telecommunications & Information Administration 2013)

### Energy

All Energy Infrastructure data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

# **Placemaking Elements**

## Select Placemaking Elements

All data for the *Parks and Pocket Parks* and *Pedestrian Connections* was sourced from data provided during the Commercial Corridor Inventory Interviews with representatives of local units of government. The *Theaters & Entertainment Venues* and *Grocery Store* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

### Job Population Ratio

The rationale for including the ration of *Jobs to Population Ratio* in Commercial Corridors is based on research that finds that in mixed-use developments external vehicle trips decline substantially as the number of jobs and the resident population become more balanced. (Reid Ewing 2013) Ratios approaching 1 indicated balance jobs and population. The ration was calculated by dividing the job density by the population density. Ratios of less than 1 have higher resident populations than the number of jobs. Ratios greater than 1 have a higher number of jobs to the resident population.

To calculate Job density, Job information utilized data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. The 2011 (latest year available) Workplace Area Characteristics (WAC) data files were used at the Census Block level. A ¼ mile circumference

buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job data for any Census Block either fully or partially contained within the buffer.

To calculate Population density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population data for any Census Block either fully or partially contained within the buffer.

### **Talent Jobshed**

All Jobshed information utilized 2011 data from LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) from the US Census Bureau. Data files are state-based and organized into three types: Origin-Destination (OD), Residence Area Characteristics (RAC), and Workplace Area Characteristics (WAC), all at census block geographic detail. Data is available for most states for the years 2002–2011.

Workers Living within Study Area, Worker's Earnings, and Jobs Located in Area and their resultant density calculations utilized data from the Michigan RAC and WAC databases. The Origin-Destination database file for Michigan was not available at the time the Commuting Data was analyzed, so the OnTheMap application was used to download data sets for each of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The available data from OnTheMap locates the worker's residence within a 2010 Census Block. The centroid, as established by the Census Tiger Files, was used to calculate the start location of the commute route distance and time. Without the individual employment locations within the Growth & Investment being contained in the OnTheMap datasets, the end location for the commute route distance and time was determined by using a point along a major commercial corridor of the Census Places and County Subdivisions that comprise the Growth & Investment Areas. The data was filtered to utilize only workers living in Michigan as workers living out of the state would have low propensity for daily commutes. The start and end locations for filtered worker commutes was then processed by a Visual Basic for Applications routine that used the Google Distance Matrix API to calculate route distance and time for 35,524 pairs.

The Google Distance Matrix API is a service that provides travel distance and time for a matrix of origins and destinations. The information returned is based on the recommended route between start and end points, as calculated by the Google Maps API, and consists of rows containing duration and distance values for each pair.

LEHD Origin-Destination Employment Statistics (LODES)1 are the job data that are delivered in the OnTheMap application. This document describes the contents of the LODES Version 7 dataset in the context of the OnTheMap application.

U.S. Census Bureau. 2013. LODES Data. Longitudinal-Employer Household Dynamics Program. http://lehd.ces.census.gov/applications/help/onthemap.html

U.S. Census Bureau. 2013. OnTheMap Application. Longitudinal-Employer Household Dynamics Program. http://onthemap.ces.census.gov/

### Overview

As with previous versions of data released in OnTheMap, LODES Version 7 is a partially synthetic dataset that describes geographic patterns of jobs by their employment locations and residential locations as well as the connections between the two locations. These data and marginal summaries are tabulated by several categorical variables. More detailed information on the variables and scope of the data follows.

## Job Definition

In the context of LODES and OnTheMap, a job is counted if a worker is employed with positive earnings during the reference quarter as well as in the quarter prior to the reference quarter. This is called a "beginning of quarter" job because the assumption is that the worker was employed on the first day of the reference quarter.

### <u>Years</u>

LODES Version 7 includes data for 2002-2011, for which Quarter 2 (April – June) is the reference period in each year. Not all states have data available for each year and not every variable is available in each year.

## Geographical Vintage

LODES Version 7 and OnTheMap use 2010 census blocks, defined for the 2010 Decennial Census, as their base geography. Data released in previous versions of LODES and OnTheMap used 2000 census blocks as the geographical base. For data previously released in 2000 census blocks, the LODES data has been "crosswalked" or "transformed" into the base of 2010 census blocks. Further information on how OnTheMap and LODES implement the 2010 census blocks can be found in OnTheMap: Updating the Base Geography

### **Data Structure**

The overall file structure of LODES Version 7 remains similar to that of previous versions. The origin-destination (OD) matrix is made available by 10 different "labor market segments." The area characteristic (AC) data – summary margins by residence block and workplace block – contain additional variables including age, earnings, and industry plus the newer variables outlined below.

In OnTheMap, the OD data are used to produce the Destination, Distance/Direction, Inflow/Outflow, and Paired Area analyses. The AC data are used to produce the Area Profile and Area Comparison analyses.

## Commuting Workers

Commuting Workers is the subset of Jobs Located in Area that is defined by those jobs were the commute route is from 2 to 175 miles. This LODES data does not sample for weekly commutes. As a result, this study chose to filter job commuting data based on these assumptions for plausible commute distances.

## **Total Daily One Way Commute for all Commuters**

The *Total Daily One Way Commute for all Commuters* (TDOWC) is computed by taking all commuters as filtered by the 2 to 175 mile assumption and calculating the total daily one-way route distance in miles and time in minutes.

### **Total Annual Commute for all Commuters**

The *Total Annual Commute for all Commuters Distance (TACD)* is computed by taking all commuters as filtered by the 2 to 175 mile assumption and multiplying the total daily one-way route distance in miles by two for the daily commute distance then by 5.25 for the weekly distance then by 50 for the annual distance. The *Total Annual Commute for all Commuters Time (TACT)* is computed by taking all commuters as filtered by the 2 to 175 mile assumption and multiplying the total daily one-way route time in minutes by two for the daily commute time, then by 5.25 for the weekly time, then by 50 for the annual time, then dividing by 60 to arrive at the total annual time in hours.

```
TACD = TDOWCD \times Round Trip Commute (2) \times Days in Work Week (5.25) \times Work Weeks in Year (50)
```

 $TACT = TDOWCT \times Round\ Trip\ Commute\ (2) \times Days\ in\ Work\ Week\ (5.25) \times Work\ Weeks\ in\ Year\ (50) \div 60$ 

## **Annual Commuting Costs**

The *Total Fuel Cost* is computed by taking the Total Annual Commute for all Commuters Distance and multiplying it by the cost of fuel per gallon (\$3.15) and dividing by the fleet average from the 2003 CAFÉ Standards (20.7 Miles Per Gallon).

```
Total Annual Fuel Cost = TDOWCD \times Fuel \ Price \ (\$3.15) \div FleetAverage \ MPH \ (20.7)
```

The *Total Cost (IRS 2014 Standard Mileage Rate)* is computed by taking the Total Annual Commute for all Commuters Distance and multiplying it by the cost per mile from the 2014 Internal Revenue Service Standard Mileage Rate (\$.56).

Total Commuting Cost Total Cost (IRS) =  $TDOWCD \times 2014$  IRS Standard Mileage Rate(\$.56)

#### **Average Annual Per Worker Commute**

The Average Annual Per Worker Commute Distance is computed by dividing the Total Annual Commute for all Commuters by the number of Commuting Workers.

Average Annual Per Worker Commute Distance =  $TACD \div Commuting Workers$ 

The Average Annual Per Worker Commute Time is computed by dividing the Total Annual Commute for all Commuters by the number of Commuting Workers.

Average Annual Per Worker Commute Distance =  $TACT \div Commuting Workers$ 

The Average Annual Per Worker Commute Total Cost is computed by dividing the Annual Commuting Cost Total Cost (IRS 2014 Standard Mileage Rate) by the number of Commuting Workers.

Average Annual Per Worker Commute Distance =  $TACD \div Commuting Workers$ 

# **Retail Activity**

Retail data was sourced from Environmental Systems Research Institute, Inc. (Esri) by the purchase of a Complete State Retail MarketPlace Data License for the State of Michigan by all levels of geography.

### Total Retail Sales

Whitepaper Statement from Esri: Esri has combined the latest Consumer Expenditure Surveys (CEX), 2006–2007, from the Bureau of Labor Statistics (BLS) to estimate current spending patterns. The continuing surveys include a Diary Survey for daily purchases and an Interview Survey for general purchases. The Diary Survey represents record keeping by consumer units for two consecutive weeklong periods. This component of the CEX collects data on small, daily purchases that could be overlooked by the quarterly Interview Survey. The Interview Survey collects expenditure data from consumers in five interviews conducted every three months. Esri integrates data from both surveys to provide a comprehensive database on all consumer expenditures. To compensate for the relatively small CEX survey bases and the variability of single-year data, expenditures are averaged from the 2006–2007 surveys.

Products and services, such as apparel items, types of digital cameras, video game systems, financial accounts and services, health-related items, Internet activities, satellite TV providers, personal care services, and detailed information about cell phones/PDAs (brands, service providers, average monthly bills, and purchase locations), are included. A product description was revised since the last Market Potential update if a product change was made by GfK MRI, if ranges had to be collapsed, or if more clarification was required. A product was dropped since the last Market Potential update if it did not pass a sample size test, became outdated or unnecessary, or no longer exists in the GfK MRI database.

### **Total Potential Retail Sales**

Esri computes Market Potential by combining 2011 Tapestry<sup>™</sup> Segmentation data with Doublebase® 2009 data from GfK MRI. Doublebase 2009 is an integration of information from four consumer surveys. Each survey respondent can be identified by Tapestry segment, so a rate of consumption by Tapestry segment can be determined for a product or service for any area.

The Expected Number of Consumers (households or adults) for a product or service in an area is computed by applying the consumption rate for Tapestry market segment "n" to households or adults in the area belonging to Tapestry segment "n," and summing across 65 Tapestry segments.

Expected Number of Consumers = 
$$\sum_{n=1}^{65} (Count_n \times Consumption \ Rate_n)$$

The *Local Consumption Rate* for a product or service for an area is computed as the ratio of the expected number of consumers for a product or service in the area to the total households or adults in the area.

$$Local \ Consumption \ Rate = \frac{Expected \ Number \ of \ Consumers}{Base \ Count}$$

The *Market Potential Index* for a product or service for an area is the ratio of the local consumption rate for a product or service for the area to the US consumption rate for the product or service, multiplied by 100.

$$\textit{Market Potential Index} = \frac{\textit{Local Consumption Rate}}{\textit{US Consumption Rate}} \times 100$$

Esri's Market Potential database includes data for more than 2,200 items, organized into 35 categories, representing goods, services, attitudes, and activities collected from GfK MRI surveys. Unless otherwise noted, each item refers to consumer spending or behavior in a 12-month period. The *a* or *h* following the five-digit product code denotes a consumer base of adults or households, respectively.

### Leakage

Leakage is defined as the Potential Sales less the Total Sales. All inputs are as reported by Esri.

#### Classification:

For the purposes of determining the *Classification*, Sales, Potential Sales, and Leakage are used for the Growth & Investment Area and County to determine whether it is a Retail Hub and if its classified as a Local Hub or Regional Hub for the purpose of this study. A Retail Hub is defined in this study as having a negative retail leakage. If the Retail Sales for the Growth & Investment Area are greater than Potential Sales in the county in which it is located and the county's leakage is negative, then the Retail Hub is classified as a Regional Hub. In the absence of these two conditions, then the Retail Hub is classified as a Local Hub.

## Sales by Retail Store Type

Ersi in the Retail MarketPlace Dataset contains 44 different types of retail store data. The sample of retail activity by store type included in this section represents approximately two-thirds of potential retail sales depending on the geographic area. This sample of store types is indicative of a diverse set of shopping type that would support a walkable mixed use environment.

## **Commercial Corridor Datasheets**

## **Corridor Length**

Corridor Lengths were determined by plotting the described commercial corridor from the Commercial Corridor Inventory Interviews with local units of government into the Google Earth desktop application, exporting the KML files for import to ArcMAP and projecting them to calculate the linear extent of the defined corridor in feet.

## Street Classification

National Functional Classification (NFC) is a planning tool which federal, state and local transportation agencies have used since the late 1960's. The Federal Highway Administration (FHWA) developed this system of classifying all streets, roads and highways according to their function. The FHWA publication, **Highway Functional Classification: Concepts, Criteria and Procedures**, provides the basis for much of the following information.

**Principal Arterials** are at the top of the NFC hierarchial system. Principal arterials generally carry long distance, through-travel movements. They also provide access to important traffic generators, such as major airports or regional shopping centers. *Examples:* Interstate and other freeways; other state routes between large cities; important surface streets in large cities.

**Minor Arterials** are similar in function to principal arterials, except they carry trips of shorter distance and to lesser traffic generators. *Examples:* State routes between smaller cities; surface streets of medium importance in large cities; important surface streets in smaller cities.

**Collectors** tend to provide more access to property than do arterials. Collectors also funnel traffic from residential or rural areas to arterials. *Examples:* County, farm-to-market roads; various connecting streets in large and small cities.

Local roads primarily provide access to property. Examples: Residential streets; lightly-traveled county roads.

The following MDOT classifications for this study's Commercial Corridor Inventory are source rom the MDOT's National Functional Classification Maps. The classifications are as follows:

Principal Arterial - Other Minor Arterial Major Collector Minor Collector Local

If a Corridor has multiple classifications along one of its segments, then the highest classification is used. Corridors with multiple segments may contain multiple classifications.

## 2013 Traffic Volume (AADT)

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

For the purpose of this report, if the identified commercial corridor has more than one AADT count, the largest count was utilized.

### **Number of Traffic Lanes**

Traffic Lane counts were sourced from Google Earth aerial imagery. On corridors with sections of varying amounts of traffic lanes, the count from the section with highest number of lanes was utilized.

## **Parking**

The presence of Parallel, Diagonal, or Parking Structures in commercial corridors was sourced from Google Earth aerial imagery.

#### **Transit Service**

Transit Service was determined from data contained on the respective Transit Agency websites.

### Bike Lane

The presence of *Bike Lakes* available in commercial corridors was sourced from Google Earth aerial and street view imagery. Accuracy may vary based on the level of quality of the imagery.

### **Entertainment Venues**

The *Theaters & Entertainment Venues* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

#### **Pedestrian Amenities**

Pedestrian Amenities consist of Sidewalks, Crosswalks, and Mid-Block Crosswalks. The presence of these Pedestrian Amenities in commercial corridors was sourced from Google Earth aerial imagery.

## Walk Score

Walk Score<sup>®</sup> measures the walkability of any address using a patented methodology that analyzes walking routes to nearby amenities and awards points based on the distance to amenities in each category with end results ranging between 0-100, 100 being a "Walker's Paradise". (Walk Score 2014)

## **Corridor Overview**

The Corridor Overview was source from Master Plans, Zoning Ordinances, Regional Transportation Plans, and other public source documents. Content has been edited.

# Corridor Segment and Surrounding 1/4 Mile Study Area Map

The map of commercial corridors were defined by entering public road center points (latitude and longitude coordinates) along the extent provided by the Commercial Corridor Inventory Interviews into Google Earth with the Add Path tool. A sufficient number of points were used to maintain road radius conformity. The full 10 county commercial corridors studies contained 1,722 individual latitude and longitude coordinates. The Google Earth paths were then exported into a KML file for import into ArcMap. The corridors where combined with data from the 2010 TIGER/Line® Shapefiles of Census Places and Counties and road geographic features data from the Michigan Department of Technology, Management, & Budget's Geographic Data Library Catalog. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to query data from various databases used in this study.

Additionally 317 Points of Interest in the 10 county Northwest Michigan region consisting of public use airports, colleges, cultural sites, grocery stores, hospitals, libraries, schools, and theaters & entertainment venues were located for inclusion into the corridor maps.

## **Economic Development**

All corridor specific *Economic Development* policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

Additional information on specific community policies can be found in the Michigan Economic Development Corporations Redevelopment Ready Communities' Best Practices guide.

http://www.michiganbusiness.org/cm/Files/Redevelopment\_Ready\_Communities/RRC-Best-Practices.pdf

# Study Area Summary for 1/4 Mile Area Surrounding the Corridor

### Population & Housing Data

To calculate Population and Housing density, the TIGER/Line® with Selected Demographic and Economic Data Shapefiles for the 2010 Census were used for Census Block level data. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull population and housing data for any Census Block either fully or partially contained within the buffer for determining data for the Corridor Segment geography. To determine calculations for the G&I Core Places and G&I Areas, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places, and Census Blocks was imputed into to ArcMap software and used to create a database of Census Blocks contained in the respective geographic extents. The Census Block database was then queried for the applicable population and housing data.

### Study Area Size Data

A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation in ArcMap then used to calculate the land area contained within. To determine calculations for the G&I Core Places and G&I Areas, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places used to query the land area information.

### Worker & Job Data

To calculate *Workers Living within Study Area* and *Jobs Located within Study Area*, data from the US Census Bureau's LEHD (Longitudinal Employer-Household Dynamics) Origin-Destination Employment Statistics (LODES) was utilized. The 2011 (latest year available) Workplace Area Characteristics (WAC) and Residence Area Characteristics (RAC) data files were used at the Census Block level. A ¼ mile circumference buffer was created from the KML defined Commercial Corridor delineation. The buffer was then used to pull job data for any Census Block either fully or partially contained within the buffer for determining data for the Corridor Segment geography. To determine calculations for the *G&I Core Places* and *G&I Areas*, the 2010 Census TIGER (Topologically Integrated Geographic Encoding and Referencing) File Data for County Subdivisions, Census Places, and Census Blocks

was imputed into to ArcMap software and used to create a database of Census Blocks contained in the respective geographic extents. The Census Block database was then queried for the applicable Worker and Job data.

# **Zoning**

Zoning data was sourced from the respective municipality's Zoning Ordinances and Maps. Commercial Corridor extents were used to pull which Districts were bisected or bordered by the corridor. The respective District standards were then used to determine maximum dwelling densities, permitted uses and review criteria, and district standards for heights, parking requirements, maximum lot coverages, and setbacks. In cases where explicit dwelling densities were not contained in the zoning ordinance, a theoretical maximum was calculated taking into account lot coverages, parking requirements, minimum unit counts and standard assumptions for building envelope ratios (specific formulas for each included district are available upon request). These maximums are theoretical and are not based on specific site constraints. As such they should not be relied upon for site planning or determinations of value. Contact the applicable Zoning Administrator for inquiries about any specific determinations. For a list of contacts please see the municipality's website or the Networks Northwest County Guides to Permitting and Zoning.

(http://www.networksnorthwest.org/planning/planning-policy/land-use/growth-and-investment.html)

### Infrastructure

### **Public Utilities**

All Municipal Water and Sewer Service data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

## **Energy**

All Energy Infrastructure data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

### **Broadband**

All data on Broadband available was sourced from both the Commercial Corridor Inventory Interviews with representatives of local units of government and Connect Michigan's technology service maps. Connect Michigan is a subsidiary of Connected Nation and operates as a non-profit in the state of Michigan. Connect Michigan partnered with the Michigan Public Service Commission to engage in a comprehensive broadband planning and technology initiative as part of National effort to map and expand broadband. The program began by gathering provider data to form a statewide broadband map and performing statewide business and residential technology assessments, but has since progressed to working with communities on community plans. (Connect Michigan 2014)

## **Policy**

All corridor specific policy data was provided during the Commercial Corridor Inventory Interviews with representatives of local units of government or a search of documentation contained on the respective municipal website.

### **Traffic Counts**

Traffic count data was sourced from the Michigan Department of Transportation's (MDOT) Traffic Monitoring Information System (TMIS) for state trunklines or from local municipalities if available. All counts utilize the Annual Average Daily Traffic (AADT) counts, which in most cases are an annual average estimate of daily traffic based on an adjustment of a sample conducted for a short period of time (short count). For short-count sites, counts are estimated by factoring a short count using seasonal and day-of-week adjustment factors. For continuous sites, counts are calculated by summing the Annual Average Days of the Week and dividing by seven.

The Traffic Count Chart contains AADT counts for the described corridor segment. For the purpose of this chart, if the identified commercial corridor segment has more than one AADT count, the largest count was utilized.

# **Placemaking Elements**

All data for the *Placemaking Elements* was sourced from information provided during the Commercial Corridor Inventory Interviews with representatives of local units of government. The *Theaters & Entertainment Venues*, *Grocery Store*, *and Restaurant* data was sourced by a search of business listings from several sources including Google, Yellow Pages, and Fandango.com.

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# **Release Notes**

1. If any information is in error or incomplete or if a community not currently participating would like to request a commercial corridor interview, please contact Scott Gest, Regional Planner at Networks Northwest.

phone: 231-929-5091

email: scottgest@networksnorthwest.org

mail: PO Box 506, Traverse City, MI 49685-0506

